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OM protein - protein search, using sw model

Run on: November 17, 2004, 17:15:52 ; Search time 23.7882 Seconds  
(without alignments)  
1223.869 Million cell updates/sec

Title: US-09-319-724B-1

Perfect score: 2347

Sequence: 1 MYIDDLPIWGIVEADENGE.....FYFGYMAVFSTALGIMCGAI 439

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 478139 seqs, 66318000 residues

Total number of hits satisfying chosen parameters: 478139

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents AA:\*

- 1: /cgn2\_6/ptodata/1/iaa/5A\_COMB.pep.\*
- 2: /cgn2\_6/ptodata/1/iaa/5B\_COMB.pep.\*
- 3: /cgn2\_6/ptodata/1/iaa/6A\_COMB.pep.\*
- 4: /cgn2\_6/ptodata/1/iaa/6B\_COMB.pep.\*
- 5: /cgn2\_6/ptodata/1/iaa/6C\_COMB.pep.\*
- 6: /cgn2\_6/ptodata/1/iaa/6D\_COMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2347	100.0	579	4	US-09-786-681A-4
2	2347	100.0	582	4	US-09-786-681A-2
3	1107	47.2	257	4	US-09-270-767-32308
4	842.5	35.9	625	3	US-08-959-004-10
5	746.5	31.8	663	3	US-08-959-004-5
6	603	25.7	667	3	US-08-959-004-11
7	546	23.3	133	4	US-09-270-767-44213
8	546	23.3	133	4	US-09-270-767-59636
9	419	17.9	241	4	US-09-248-796A-20311
10	364	15.5	87	4	US-09-513-999C-7785
11	159	6.8	218	4	US-09-270-767-46281
12	135	5.8	111	4	US-09-513-999C-7579
13	127	5.4	605	4	US-09-583-110-4773
14	120.5	5.1	513	4	US-09-543-681A-8279
15	118.5	5.0	496	3	US-09-134-001C-3703
16	115	4.9	502	4	US-09-328-352-6968
17	109	4.6	468	4	US-09-710-279-868
18	109	4.6	468	4	US-09-710-279-1618
19	107.5	4.6	408	2	US-08-742-440A-6
20	107	4.6	353	4	US-09-576-160B-6
21	106	4.5	237	3	US-09-134-001C-3057
22	105	4.5	504	4	US-09-489-039A-8489
23	104	4.4	511	4	US-09-107-532A-6112
24	103	4.4	822	4	US-09-824-734-3
25	102.5	4.4	402	4	US-09-270-767-35644
26	102.5	4.4	402	4	US-09-270-767-50861
27	101.5	4.3	2938	5	PCT-US94-00198-3

ALIGNMENTS

RESULT 1  
US-09-786-681A-4  
; Sequence 4, Application US/097866681A  
; Patent No. 6692926  
; GENERAL INFORMATION:  
; APPLICANT: HIDAKA, Jun et al.  
; TITLE OF INVENTION: RECOMBINANT HUMAN SM-11044-BINDING RECEPTOR PROTEINS EXHIBITING LI  
; FILE REFERENCE: BINDING ACTIVITIES, AND THEIR USES  
; FILE REFERENCE: 0020-4827P  
; CURRENT APPLICATION NUMBER: US/09/786, 681A  
; CURRENT FILING DATE: 2001-01-24  
; NUMBER OF SEQ ID NOS: 7  
; SOFTWARE: Patentin version 3.0  
; SEQ ID NO 4  
; LENGTH: 579  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-786-681A-4

Query Match 100.0%; Score 2347; DB 4; Length 579;  
Best Local Similarity 100.0%; Pred. No. 4.6e-225;  
Matches 439; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	MYIDDLPIWGIVGADENGE	DYIYLTWTKLEIGFNGNRI	VDVNLTS	SEGVKVLVPNTKIQ	60	
Db	122	MYIDDLPIWGIVGADENGE	DYIYLTWTKLEIGFNGNRI	VDVNLTS	SEGVKVLVPNTKIQ	181	
Qy	61	SYSVKWKS	SDVKFEDR	FDKYLDP	SPFQHR	IHWFSIFNSFMVIFLVGLVSMILMRLKD	120
Db	182	SYSVKWKS	SDVKFEDR	FDKYLDP	SPFQHR	IHWFSIFNSFMVIFLVGLVSMILMRLKD	241
Qy	121	YARYSKEE	MDMDRLD	GDYGVK	QVGVDFR	PPSSHPLIFSSLIGSGCOIFAVSLIV	180
Db	242	YARYSKEE	MDMDRLD	GDYGVK	QVGVDFR	PPSSHPLIFSSLIGSGCOIFAVSLIV	301
Qy	181	AMIEDLYTER	SGMLSTAIFVYAAT	SPVNGY	FGSLYARQ	GGRRWIKOMFIGAFLIPAMVC	240
Db	302	AMIEDLYTER	SGMLSTAIFVYAAT	SPVNGY	FGSLYARQ	GGRRWIKOMFIGAFLIPAMVC	361
Qy	241	GTAFPTNF	IATYYHASRAIP	FGTMTAV	VCCICFFVILPLNLVGTILGRNLSGQPNPCRVN	300	
Db	362	GTAFPTNF	IATYYHASRAIP	FGTMTAV	VCCICFFVILPLNLVGTILGRNLSGQPNPCRVN	421	
Qy	301	AVPRPTPEKKWME	PAIVCLG	GIIPFGS	IFEMYFIFTSFWAYKIYYVYGFMVLVL	360	
Db	422	AVPRPTPEKKWME	PAIVCLG	GIIPFGS	IFEMYFIFTSFWAYKIYYVYGFMVLVL	481	
Qy	361	CIVTVCTIVCTYFL	LNADYRWQWTSFL	SAATAIYVYNY	SFYFFYFKTKMYGLFQTSF	420	
Db	482	CIVTVCTIVCTYFL	LNADYRWQWTSFL	SAATAIYVYNY	SFYFFYFKTKMYGLFQTSF	541	

QY 421 YFGYMAVFSTALGIMCGAI 439  
 Db 542 YFGYMAVFSTALGIMCGAI 560

RESULT 2

US-09-786-681A-2  
 ; Sequence 2, Application US/09786681A  
 ; Patent No. 6692926  
 ; GENERAL INFORMATION:  
 ; APPLICANT: HIDAKA, Jun et al.  
 ; TITLE OF INVENTION: RECOMBINANT HUMAN SM-11044-BINDING RECEPTOR PROTEINS EXHIBITING  
 ; FILE REFERENCE: 0020-4827P  
 ; CURRENT APPLICATION NUMBER: US/09/786.681A  
 ; CURRENT FILING DATE: 2001-01-24  
 ; NUMBER OF SEQ ID NOS: 7  
 ; SOFTWARE: PatentIn version 3.0  
 ; SEQ ID NO: 2  
 ; LENGTH: 582  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 ; US-09-786-681A-2

Query Match 100.0%; Score 2347; DB 4; Length 582;  
 Best Local Similarity 100.0%; Pred. No. 4.6e-225; Indels 0; Gaps 0;  
 Matches 439; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 1 MYIDDLPIGWIGVADENGEDYIWTYKYLEIGFNGNRIVDVNLTSEKVKLVPTNKIQM 60  
 Db 125 MYIDDLPIGWIGVADENGEDYIWTYKYLEIGFNGNRIVDVNLTSEKVKLVPTNKIQM 184  
 QY 61 SYSVKWKSVDKPEDRDYLDPSFFQHRHWFSEFNSFMVIFLVGLVSMILMRLTKDY 120  
 Db 185 SYSVKWKSVDKPEDRDYLDPSFFQHRHWFSEFNSFMVIFLVGLVSMILMRLTKDY 244  
 QY 121 YARYSKEEMDDMDRLDGEYQWGVHGDVFRPSSHPLIFSSLGSCQIFAVSLIIV 180  
 Db 245 YARYSKEEMDDMDRLDGEYQWGVHGDVFRPSSHPLIFSSLGSCQIFAVSLIIV 304  
 QY 181 AMIEDLYTERGSMSTAFVYAATSPVNGYFGGSLYARQGRWIKOMFAGFLIPAMVC 240  
 Db 305 AMIEDLYTERGSMSTAFVYAATSPVNGYFGGSLYARQGRWIKOMFAGFLIPAMVC 364  
 QY 241 GTAFFINFIAIYHASRAIPFGTWAVCCICFFVILPLNLVGTILGRNLGQPNFPCRVN 300  
 Db 365 GTAFFINFIAIYHASRAIPFGTWAVCCICFFVILPLNLVGTILGRNLGQPNFPCRVN 424  
 QY 301 AVPRPIPEKWFMEPAVIVCLGGILPFGSIFIEYFTSFYAYKIYVYVGFNMLVLVIL 360  
 Db 425 AVPRPIPEKWFMEPAVIVCLGGILPFGSIFIEYFTSFYAYKIYVYVGFNMLVLVIL 484  
 QY 361 CIVTVCVTIYCTYLLNADYRWOMTSFLSAASTAIYVMYSFYVFFKTKMYGLFQTSF 420  
 Db 485 CIVTVCVTIYCTYLLNADYRWOMTSFLSAASTAIYVMYSFYVFFKTKMYGLFQTSF 544  
 QY 421 YFGYMAVFSTALGIMCGAI 439  
 Db 545 YFGYMAVFSTALGIMCGAI 563

RESULT 3

US-09-270-767-32308  
 ; Sequence 32308, Application US/09270767  
 ; Patent No. 6703491  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Homburger et al.  
 ; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster  
 ; FILE REFERENCE: File Reference: 7326-094  
 ; CURRENT APPLICATION NUMBER: US/09/270.767  
 ; CURRENT FILING DATE: 1999-03-17  
 ; NUMBER OF SEQ ID NOS: 62517

; SOFTWARE: PatentIn Ver. 2.0  
 ; SEQ ID NO 32308  
 ; LENGTH: 257  
 ; TYPE: PRT  
 ; ORGANISM: Drosophila melanogaster  
 ; US-09-270-767-32308

Query Match 47.2%; Score 1107; DB 4; Length 257;  
 Best Local Similarity 78.2%; Pred. No. 4.6e-102;  
 Matches 201; Conservative 27; Mismatches 29; Indels 0; Gaps 0;  
 QY 62 YSVKWKSDVKPEDRDYLDPSFFQHRHWFSEFNSFMVIFLVGLVSMILMRLTKDY 121  
 Db 1 YEYNWKPSEFNFNPKYLDPSFFQHRHWFSEFNSFMVIFLVGLVSMILMRLTKDY 60  
 QY 122 ARYSKEEEMDDMDRLDGEYQWGVHGDVFRPSSHPLIFSSLGSCQIFAVSLIIV 181  
 Db 61 ARYSKDEEIDMDERDLGDEYQWGVHGDVFRPSSHPLIFSSLGSCQIFAVSLIIV 120  
 QY 182 MIEDLYTERGSMSTAFVYAATSPVNGYFGGSLYARQGRWIKOMFAGFLIPAMVC 241  
 Db 121 IVGELYTERGSMSTAFVYAATSPVNGYFGGSLYARQGRWIKOMFAGFLIPAMVC 180  
 QY 242 TAFFINFIAIYHASRAIPFGTWAVCCICFFVILPLNLVGTILGRNLGQPNFPCRVN 301  
 Db 181 TAFLINFIAIGYHASRAIPFGTWAVTCICLFLVILPLNLVGTIVGRLDQDPFPCRVN 240  
 QY 302 VPRPIPEKWFMEPAVI 318  
 Db 241 VPRPIPEKWFMEPLII 257

RESULT 4

US-08-959-004-10  
 ; Sequence 10, Application US/08959004  
 ; Patent No. 6197543  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Hillman, Jennifer L.  
 ; APPLICANT: Yue, Henry  
 ; APPLICANT: Corley, Neil C.  
 ; APPLICANT: Lal, Preeti  
 ; APPLICANT: Shah, Purvi  
 ; APPLICANT: Kaser, Matthew  
 ; TITLE OF INVENTION: HUMAN VESICLE MEMBRANE PROTEIN-LIKE  
 ; TITLE OF INVENTION: PROTEINS  
 ; NUMBER OF SEQUENCES: 11  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Incyte Pharmaceuticals, Inc.  
 ; STREET: 3174 Forter Drive  
 ; CITY: Palo Alto  
 ; STATE: CA  
 ; COUNTRY: USA  
 ; ZIP: 94304  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Diskette  
 ; COMPUTER: IBM Compatible  
 ; OPERATING SYSTEM: DOS  
 ; SOFTWARE: FastSeq for Windows Version 2.0  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/959,004  
 ; FILING DATE: Herewith  
 ; CLASSIFICATION: S14  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER:  
 ; FILING DATE:  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Billings, Lucy J.  
 ; REGISTRATION NUMBER: 36,749  
 ; REFERENCE/DOCKET NUMBER: PP-0414 US  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: 650-855-0555  
 ; TELEFAX: 650-845-4166  
 ; TELEX:

```
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 625 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GenBank
; CLONE: 1665777
; US-08-959-004-10

Query Match      35.9%; Score 842.5; DB 3; Length 625;
Best Local Similarity 39.9%; Pred. No. 3.3e-75;
Matches 175; Conservative 83; Mismatches 158; Indels 23; Gaps 6;

Qy 17 ENGDEYYLWYK--KLEIGFNGNRIVDVNLTSEKVKLVPT-----KIQMS 61
Db 175 EDMEDEQHYRVRVPEVQSRLEDLKADKSSCTLPEGTNSSPQEIPTKENQLYFT 234
Qy 62 YSVNKKSDVKFEDRDKYLDPSFFQHRHWFISFNSFMVIFLVGLVSMILMTLRKDY 121
Db 235 YSVHWESDVKASRMDTYLTNSDVQ--IHWFSIINSVVVFFLSGILSMIIRTKDI 292
Qy 122 ARYSKEEMDDMDRLDGEYGMKQVHGDFRPPSSHPLIFSSLGSCQIFAVSLIIVVA 181
Db 293 ANYNKEDDIE---DTWEESGKLVHCDVFRPPQYPWILSSLLSGGIQFCMLIIVFA 348
Qy 182 MIEDLY-TERGSMNSTAIFVAATSPVNGYFGSLYARQGRWIKQMGIFAPLIPAMVC 240
Db 349 MGLMSPSSRGALMTTACFLFMFNGVFGFSAGRLYRTLKGRHWKGAFCATATLYPGVVF 408
Qy 241 GTAFFINFIAIYHSAIRAIPGMVAVCCICFFVILPLNLVGTILGNLSGQNPFCRVN 300
Db 409 GICEVLNCTYKGHSSGAVFPTWVALLCMWFGISLPLVLYGYFERKQPDN-PVRTN 467
Qy 301 AVPRPIPEKKWMEPAVIVCLGILPEGSIFEMYFIPTSFYAYKIYYVYGFMMVLVIL 360
Db 468 QIPRQIEQWYNNRFGVILMAGILPFGAMPFIELFRIFSAIWENQPYFLFGFLVFIIL 527
Qy 361 CIVTVCVTIVCTVFLNADRYKQWTSFLSAATAIYVYVYVYFFKTKMYGLQTSF 420
Db 528 VVSCQSISIVNVVQPCADRYMWRNPLVSGSFAFYLVIAIFYFNKVLIDIVEFIPSL 587
Qy 421 YFGYMAVFTALGIMCGAI 439
Db 588 YFGYTMALVLSFLLTGTI 606

RESULT 5
US-08-959-004-5
; Sequence 5, Application US/08959004
; Patent No. 6197543
; GENERAL INFORMATION:
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Yue, Henry
; APPLICANT: Corley, Neil C.
; APPLICANT: Lal, Preeti
; APPLICANT: Shah, Purvi
; APPLICANT: Kaser, Matthew
; TITLE OF INVENTION: HUMAN VESICLE MEMBRANE PROTEIN-LIKE
; TITLE OF INVENTION: PROTEINS
; NUMBER OF SEQUENCES: 11
; CORRESPONDENCE ADDRESS:
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS

; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/959,004
; FILING DATE: Herewith
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0414 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-855-0555
; TELEFAX: 650-845-4166
; TELEX:
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 663 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: ADRETUT06
; CLONE: 2822412
; US-08-959-004-5

Query Match      31.8%; Score 746.5; DB 3; Length 663;
Best Local Similarity 34.2%; Pred. No. 1.3e-65;
Matches 155; Conservative 93; Mismatches 160; Indels 45; Gaps 9;

Qy 20 EBYLWT-----YKLEIGFNGNRIV-----DVNLTSEG 48
Db 204 DTFYIFNHVDIKIYHVYVETGSMGARLVAALKPKSPKXTHIDKDCSGPPMDISNKASG 263
Qy 49 KVKLVNTKIQMSYVKKWKS-DVKEDRFDKYLDPSFFQHRHWFISFNSFMVIFLVG 107
Db 264 EI-----KIATYVSVEEDDKIRWASRWYILSEMPHTH-IQWFSIMNSLVIVLPLSG 316
Qy 108 LVSMILMTLRKDYARYSKSEEMDDMDRLDGEYGMKQVHGDFRPPSSHPLIFSSLSG 167
Db 317 MYAMIMLTLRKDYARYN---QMDSTE-DAQEEFGKLVHGDIFRPPKGMLLSVFLSG 372
Qy 168 CQIFAVSLIIVIAMIEDLY-TERGSMNSTAIFVAATSPVNGYFGSLYARQGRWIK 226
Db 373 TQILIMTFVTLFFACLGFLSPANRGALMTCAVWLVLGTDPAGYVAARFYKSFQGEKWK 432
Qy 227 QMFICAFILIPAMVCGTAFINFIAYIYHSAIRAIPGMVAVCCICFFVILPLNLVGTILG 286
Db 433 NVLLTSFLCPGIVFADFFIMNLILWEGSSAIPFGTILVALALWFCISVPLTFIGAYFG 492
Qy 287 RNLGQNPFCRVNAVPRPIPEKKWMEPAVIVCLGILPEGSIFEMYFIPTSFYAYKI 346
Db 493 FKKNAIEH-PVRTNQIPRQIEQSPYTKPLPGIIMGGLPFCIFIQLFILNSIWSHQ 551
Qy 347 YVYGFMMVLVILCIVTVCVTIVCTVFLNADRYKQWTSFLSAATAIYVYVYFY 406
Db 552 YVMFGFLVFIILVITCSEATILLCYFHLCAEDYHWMQWRSFLTSGETAVFYLIYAVHYF 611
Qy 407 PEKTKMYGLFQTSFYFGYMAVFTALGIMCGAI 439
Db 612 FSKLQITGASTILYFGYTMIMVLIFLTGTI 644

RESULT 6
US-08-959-004-11
; Sequence 11, Application US/08959004
; Patent No. 6197543
; GENERAL INFORMATION:
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Yue, Henry
; APPLICANT: Corley, Neil C.
; APPLICANT: Lal, Preeti
```

APPLICANT: Shah, Purvi  
APPLICANT: Kaser, Matthew  
TITLE OF INVENTION: HUMAN VESICLE MEMBRANE PROTEIN-LIKE  
TITLE OF INVENTION: PROTEINS  
NUMBER OF SEQUENCES: 11  
CORRESPONDENCE ADDRESS:  
ADDRESS: Incyte Pharmaceuticals, Inc.  
STREET: 3174 Porter Drive  
CITY: Palo Alto  
STATE: CA  
COUNTRY: USA  
ZIP: 94304  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/959,004  
FILING DATE: Herewith  
CLASSIFICATION: 514  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Billings, Lucy J.  
REGISTRATION NUMBER: 36,749  
REFERENCE/DOCKET NUMBER: PP-0414 US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 650-855-0555  
TELEFAX: 650-845-4166  
TELEX:  
INFORMATION FOR SEQ ID NO: 11:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 667 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
IMMEDIATE SOURCE:  
LIBRARY: GenBank  
CLONE: 2131246  
US-08-959-004-11

Query Match 25.7%; Score 603; DB 3; Length 667;  
Best Local Similarity 33.3%; Pred. No. 2.5e-51;  
Matches 130; Conservative 77; Mismatches 167; Indels 16; Gaps 7;  
QY 55 NTKIQMSYVKKKSDVKFEDRFKYL---DPSFQHRHWFISFNSFMVFIPLVGLVSM 111  
DB 270 DNEVFTYSVFNSATSATSWATRWKYLHVYDPS-----IQWFLNPSLVVLLSSVYIH 324  
QY 112 ILMTLRKDYARYSKEEMDDMDRLDGEVGVKQVHGDVFRPSHPHLPISLIGSGCOIF 171  
DB 325 SLLRAKSDFARYN-ENLDD---DFQDSGNKLNHGDVFRSPQSQTLLILVSGSGVQLF 380  
QY 172 AVSLIVIVAMIEDLY-TERGSMLSLTAIFVYAATSPVNGYFGGSLYARQGRRWIKQMF 230  
DB 381 LMWTCISFFAALGFLSPSSRGLSATVMFYLALFGVGSYTSMGYKFFNGPYWKANLIL 440  
QY 231 GAFILPAMVCGTAFINFIATYHASRAIPGTMVAVCCICFFVILPLNLVGLIGNLS 290  
DB 441 TPLVPGAILIILALNFFLMFVHSSGVIIPASTLFFVFWLWFLFSLPISFAGSLIARKK 500  
QY 291 GQPNFPCRVNAVPRPIPEKWMFMPAVICVLGGLPFGSIFIEMYFTFSFWAYKIYVY 350  
DB 501 HWDEHPKTNQIAQIPFPQPYLXTIPATLIAGIFFPGSSIAVELYFIYTSLWFKIFYMF 560  
QY 351 GFMMMLVLICIVTCVTIVCTYFLNADRYRWQTSF-LSAATAIYVMYFYFFK 409  
DB 561 GFLPFSFLLLTSLVLTITYSKLENKWKQWRGFIIGGACALYVFIHSI--LFTK 618  
QY 410 TKMYGLFQTSFYFGYMAVFSFALGIMCGAI 439

DB 619 FKLGGFTTIVLYGVYSSVISLLCCLVTGSI 648

## RESULT 7

US-09-270-767-44213  
Sequence 44213, Application US/09270767  
Patent No. 6703491  
GENERAL INFORMATION:  
APPLICANT: Homburger et al.  
TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster  
FILE REFERENCE: File Reference: 7326-094  
CURRENT APPLICATION NUMBER: US/09/270,767  
CURRENT FILING DATE: 1999-03-17  
NUMBER OF SEQ ID NOS: 62517  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 44213  
LENGTH: 133  
TYPE: PRT  
ORGANISM: Drosophila melanogaster  
US-09-270-767-44213

Query Match 23.3%; Score 546; DB 4; Length 133;  
Best Local Similarity 84.2%; Pred. No. 1.4e-46;  
Matches 96; Conservative 11; Mismatches 7; Indels 0; Gaps 0;

QY 326 PGSSIFIEMYFIFTSFWAYKIYVYGFMMVLVILCIYVTCVTIVCTYFLLNADRYQW 385  
DB 1 PGSSIFIEMYFIFTSFWAYKIYVYGFMMVLVILCIYVTCVTIVCTYFLLNADRYQW 60  
QY 386 TSFLSAASTAIYVMYSPYFFFKTKMYGLFQTSFYFGYMAVFSFALGIMCGAI 439  
DB 61 TSFMAAGSTSIYVAYSFYFFFKTKMYGLFQTSFYFGYMAVFSFALGIMCGAI 114

## RESULT 8

US-09-270-767-59636  
Sequence 59636, Application US/09270767  
Patent No. 6703491  
GENERAL INFORMATION:  
APPLICANT: Homburger et al.  
TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster  
FILE REFERENCE: File Reference: 7326-094  
CURRENT APPLICATION NUMBER: US/09/270,767  
CURRENT FILING DATE: 1999-03-17  
NUMBER OF SEQ ID NOS: 62517  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 59636  
LENGTH: 133  
TYPE: PRT  
ORGANISM: Drosophila melanogaster  
US-09-270-767-59636

Query Match 23.3%; Score 546; DB 4; Length 133;  
Best Local Similarity 84.2%; Pred. No. 1.4e-46;  
Matches 96; Conservative 11; Mismatches 7; Indels 0; Gaps 0;

QY 326 PGSSIFIEMYFIFTSFWAYKIYVYGFMMVLVILCIYVTCVTIVCTYFLLNADRYQW 385  
DB 1 PGSSIFIEMYFIFTSFWAYKIYVYGFMMVLVILCIYVTCVTIVCTYFLLNADRYQW 60  
QY 386 TSFLSAASTAIYVMYSPYFFFKTKMYGLFQTSFYFGYMAVFSFALGIMCGAI 439  
DB 61 TSFMAAGSTSIYVAYSFYFFFKTKMYGLFQTSFYFGYMAVFSFALGIMCGAI 114

## RESULT 9

US-09-248-796A-20311  
Sequence 20311, Application US/09248796A  
Patent No. 6747137  
GENERAL INFORMATION:  
APPLICANT: Keith Weinstein et al  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICANS  
TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS



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; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
; CURRENT FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 20311
; LENGTH: 241
; TYPE: PRT
; ORGANISM: Candida albicans
US-09-248-796A-20311

Query Match      17.9%; Score 419; DB 4; Length 241;
Best Local Similarity 36.4%; Pred. No. 1.4e-33;
Matches 82; Conservative 46; Mismatches 85; Indels 12; Gaps 4;

QY 220 GGRWIKQMFAGFLIPAMVCGTAFFINETAIYHASRAIPFGTVMVAVCCICFEVILPLN 279
DB 5 GGNWKLNMFLTPVLVPGIUSLVFVNLNFFLISVQSSGALHMGTMFAIVLWFIISPLS 64
QY 280 LVGTILGRNLSGPP--NPPCRVNAVRPIPEKKWMEPEPAVIVCLGILPFGSIFIEMYFI 337
DB 65 VIGSILASN--RPLLSVPRVTRQIPRQIPTQPWILSTIPVMEISGIFPFGSIAVEMYFI 121
QY 338 FTSEFWAKIYVYVGFMMVLVILCIIVTCVITVYFLLNAEDYRWQWTSFLSAASTAIY 397
DB 122 YSSIFWFKIFMYRGLFUFFCFLIMLTSSLITILMIYTLCSENYKQWKSFLVGGGCAIY 181
QY 398 VYMSFYIYFFKT---KMYGLFQTSFYFGYMAVFSTALGIMCGAI 439
DB 182 VFHS-----FLLIGERFGFGSSLVLYSGYSAVISLVLVFLCCGSI 222

RESULT 10
US-09-513-999C-7785
; Sequence 7785, Application US/09513999C
; Patent No. 6783961
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Duclert, A.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; FILE REFERENCE: 59, US2, REG
; CURRENT APPLICATION NUMBER: US/09/513,999C
; CURRENT FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/122,487
; PRIOR FILING DATE: 1999-02-26
; NUMBER OF SEQ ID NOS: 36681
; SOFTWARE: Patent.pm
; SEQ ID NO 7785
; LENGTH: 87
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: 2
; OTHER INFORMATION: Xaa=Lys or Met or Arg or Thr
; NAME/KEY: UNSURE
; LOCATION: 55
; OTHER INFORMATION: Xaa=Ala or Asp or Gly or Val
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: 73
; OTHER INFORMATION: Xaa=Ala or Asp
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: 74
; OTHER INFORMATION: Xaa=Lys or Thr
US-09-513-999C-7785

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Query Match      15.5%; Score 364; DB 4; Length 87;
Best Local Similarity 91.1%; Pred. No. 1.1e-28;
Matches 72; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 133 MDRDLGDEYGMKQVGHGVDVFRPSSHPLIFSSLGSGCQIFAVSLIVIIIVAMIEDLYTERGS 192
DB 3 MDRDLGDEYGMKQVGHGVDVFRPSSHPLIFSSLGSGCQIFAVSLIVIIIVAMIEIXLYTERGS 62
QY 193 MLSTAIFYAATSPVNGYF 211
DB 63 MLSTAIFYAXXSPSEWLF 81

RESULT 11
US-09-270-767-46281
; Sequence 46281, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 46281
; LENGTH: 218
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-09-270-767-46281

Query Match      6.8%; Score 159; DB 4; Length 218;
Best Local Similarity 62.2%; Pred. No. 9.3e-08;
Matches 28; Conservative 7; Mismatches 10; Indels 0; Gaps 0;

QY 1 MYIDDLPIWGVGEADENGEDYLLWYTKKLEIGFNGNRIVDNLT 45
DB 174 MYIDGLPIWGVGERDGRDGVYIFTHKKFDYNGVQQIVDITLT 218

RESULT 12
US-09-513-999C-7579
; Sequence 7579, Application US/09513999C
; Patent No. 6783961
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Duclert, A.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; FILE REFERENCE: 59, US2, REG
; CURRENT APPLICATION NUMBER: US/09/513,999C
; CURRENT FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/122,487
; PRIOR FILING DATE: 1999-02-26
; NUMBER OF SEQ ID NOS: 36681
; SOFTWARE: Patent.pm
; SEQ ID NO 7579
; LENGTH: 111
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-513-999C-7579

Query Match      5.8%; Score 135; DB 4; Length 111;
Best Local Similarity 100.0%; Pred. No. 9.3e-06;
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 88 MYIDDLPIWGVGEADENGEDYLL 111

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Db 153 ---TVSEMQLWVFLLSLFGQFFLENLSIANSLLIILIGWVYFFVVKRRLSYELIVGFML 208  
Qy 319 VCLGGILPFGSIFIEMYFIF-----TSPWAYKIYVYVYVGM--MLVL 357  
Db 209 SCIGNIIMPLNF---NYFLIKDGLNTHYSISDSHGMIHKAGVTLFKLVPEYMEINQMIL 265  
Qy 358 VILCIVTV-----CVTI-VCTYFLLNAEDYRWQWTSFLSAA- 392  
Db 266 TVISIVSIVLLKQNSLKHMRVVIKIPLLGLITLPIYKIFVYNQHFELYKASFSIAVL 325  
Qy 393 -STAIYVYMYSPYYPFKTKYGLFQTSFYFGYMAVFTALGIM 435  
Db 326 NTTICFIYMSIVYVWFPMIQQRYIRMVNGSFIAMASSVLPLL 369

Search completed: November 17, 2004, 17:31:55  
Job time : 25.7882 secs



GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: November 18, 2004, 22:11:36 ; Search time 117.884 Seconds  
(without alignments)  
7940.984 Million cell updates/sec

Title: US-09-319-724B-2  
Perfect score: 1317  
Sequence: 1 atgtacatagatgattacc.....ggataatgtgtagcgatt 1317

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 824507 seqs, 35539441 residues

Total number of hits satisfying chosen parameters: 1649014

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents NA: \*  
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2: /cgn2\_6/ptodata/1/ina/5B COMB.seq.\*  
3: /cgn2\_6/ptodata/1/ina/6A COMB.seq.\*  
4: /cgn2\_6/ptodata/1/ina/6B COMB.seq.\*  
5: /cgn2\_6/ptodata/1/ina/PTUS COMB.seq.\*  
6: /cgn2\_6/ptodata/1/ina/backfiles1.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	1317	100.0	1827	4	US-09-786-681A-3
2	1317	100.0	2072	4	US-09-786-681A-1
3	444	33.7	444	4	US-09-621-976-18929
4	383.4	29.1	440	4	US-09-513-599C-3708
5	369.8	28.1	771	4	US-09-270-767-679
6	369.8	28.1	771	4	US-09-270-767-15961
7	209	15.9	2805	3	US-08-959-004-6
8	193	14.7	571	4	US-09-270-767-28434
9	193	14.7	1151	4	US-09-270-767-12633
10	114.6	8.7	726	4	US-09-248-796A-6208
11	100	7.6	262	4	US-09-313-294A-2292
12	91.6	7.0	769	3	US-09-385-982-530
13	73	5.5	433	4	US-09-513-599C-3502
14	64.6	4.9	302	4	US-09-702-705-1002
15	64.6	4.9	302	4	US-09-736-457-1002
16	64.6	4.9	302	4	US-09-614-124B-1002
17	64.6	4.9	302	4	US-09-671-325-1002
18	64.6	4.9	302	4	US-09-658-824-1002
19	56.4	4.3	279	4	US-09-313-294A-4533
20	51.8	3.9	7218	1	US-08-232-463-14
21	51.2	3.9	995	4	US-09-270-767-14715
22	47.8	3.6	299	4	US-09-313-294A-772
23	45.6	3.5	519	1	US-08-686-878A-20
24	45.6	3.5	519	3	US-08-175-928-20
25	44.6	3.4	99500	3	US-09-798-096-10
26	44.4	3.4	1141	4	US-09-806-708B-22
27	43	3.3	268	4	US-09-313-294A-909

C 28	42.4	3.2	453	4	US-09-270-767-9089	Sequence 9089, Ap
C 29	42.4	3.2	453	4	US-09-270-767-24371	Sequence 24371, A
C 30	42.2	3.2	1141	4	US-09-806-708B-22	Sequence 22, Appl
C 31	42	3.2	640681	4	US-09-790-988-1	Sequence 1, Appl
C 32	40.8	3.1	274	4	US-09-313-294A-3811	Sequence 3811, Ap
C 33	40.8	3.1	7218	1	US-08-232-463-14	Sequence 14, Appl
C 34	38.8	2.9	26664	3	US-09-564-805-28	Sequence 28, Appl
C 35	38.6	2.9	1001	4	US-09-641-638-103	Sequence 103, App
C 36	38.6	2.9	1001	4	US-10-170-097-103	Sequence 103, App
C 37	38.6	2.9	1847	3	US-08-930-894-3	Sequence 3, Appl
C 38	38.6	2.9	2469	4	US-09-248-796A-4746	Sequence 4746, Ap
C 39	38.4	2.9	399	4	US-09-621-976-8976	Sequence 8976, Ap
C 40	38.4	2.9	640681	4	US-09-790-988-1	Sequence 1, Appl
C 41	38.2	2.9	256	4	US-09-313-294A-2536	Sequence 2536, Ap
C 42	37.8	2.9	8133	1	US-08-480-604A-5	Sequence 5, Appl
C 43	37.8	2.9	8133	2	US-08-405-496A-5	Sequence 5, Appl
C 44	37.8	2.9	8133	3	US-08-915-136-5	Sequence 5, Appl
C 45	37.8	2.9	8133	3	US-08-957-310-5	Sequence 5, Appl

ALIGNMENTS

RESULT 1  
US-09-786-681A-3  
; Sequence 3, Application US/09786681A  
; Patent No. 6692926  
; GENERAL INFORMATION:  
; APPLICANT: HIDAKA, Jun et al.  
; TITLE OF INVENTION: RECOMBINANT HUMAN SM-11044-BINDING RECEPTOR PROTEINS EXHIBITING L1  
; TITLE OF INVENTION: BINDING ACTIVITIES, AND THEIR USES  
; FILE REFERENCE: 0020-4827P  
; CURRENT APPLICATION NUMBER: US/09/786,681A  
; CURRENT FILING DATE: 2001-01-24  
; NUMBER OF SEQ ID NOS: 7  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 3  
; LENGTH: 1827  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (11)..(1747)  
US-09-786-681A-3

Query Match	100.0%	Score 1317;	DB 4;	Length 1827;
Best Local Similarity	100.0%;	Pred. No. 0;		
Matches 1317;	Conservative	0;	Mismatches	0;
			Indels	0;
Gaps	0;			
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Db	374	ATGTACATAGATGATTTTACC	AATATGGGTATTGTTGGT	GAGGCTGATGAAATCGAGAA 433
QY	61	GATTACTATCTTTTGACCTTA	AAAAAACTTGAATAGT	TTTAAATGGAATCGAATTGTT 120
Db	434	GATTACTATCTTTTGACCTTA	AAAAAACTTGAATAGT	TTTAAATGGAATCGAATTGTT 493
QY	121	GATGTAATCTTAACCTAGT	AGGAAAGTGAACCTGTTT	CCAAATCTAAATCCAGATG 180
Db	494	GATGTAATCTTAACCTAGT	AGGAAAGTGAACCTGTTT	CCAAATCTAAATCCAGATG 553
QY	181	TCATATTCAGTAAAAATGGA	AAAAAGTCAGATGTGAA	ATTTGAAGATCGATTTGACA 240
Db	554	TCATATTCAGTAAAAATGGA	AAAAAGTCAGATGTGAA	ATTTGAAGATCGATTTGACA 613
QY	241	CTTGATCCGTCCTTTTTCAC	ATCGGATTCATTTGTTT	TCAATTTTCAACTCCCTTCATG 300
Db	614	CTTGATCCGTCCTTTTTCAC	ATCGGATTCATTTGTTT	TCAATTTTCAACTCCCTTCATG 673
QY	301	ATGGTGATCTTCTTGGTGG	CTTAGTTTCAATGATTTT	TAATGAGAACATTAAGAAAA 360
Db	674	ATGGTGATCTTCTTGGTGG	CTTAGTTTCAATGATTTT	TAATGAGAACATTAAGAAAA 733

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QY 361 TATGCTCGGTACAGTAAAGAGAGAAATGGATGATATGGATAGACACCTAGGAGTAA 420
Db 734 TATGCTCGGTACAGTAAAGAGAGAAATGGATGATATGGATAGACACCTAGGAGTAA 793
QY 421 TATGATGAAACAGGTGCATGGAGATGATATTTAGACCATCAAGTCAACCACTGATATTT 480
Db 794 TATGATGAAACAGGTGCATGGAGATGATATTTAGACCATCAAGTCAACCACTGATATTT 853
QY 481 TCCTCTCTGATGTTCTGGAATGTCAGATATTTGCTGTGTCCTCATCGTTATTTGTT 540
Db 854 TCCTCTCTGATGTTCTGGAATGTCAGATATTTGCTGTGTCCTCATCGTTATTTGTT 913
QY 541 GCAATGATAGAGATTTATATACCTGAGAGGAGATCAATGCTCAGTACAGCATATTTGTC 600
Db 914 GCAATGATAGAGATTTATATACCTGAGAGGAGATCAATGCTCAGTACAGCATATTTGTC 973
QY 601 TATGCTGCTACGTCCTCAAGTGAATGGTTATTTTGGAGAAAGTCTGTATGCTAGACAGGA 660
Db 974 TATGCTGCTACGTCCTCAAGTGAATGGTTATTTTGGAGAAAGTCTGTATGCTAGACAGGA 1033
QY 661 GGAAGGAGATGATAAAGCAGATGTTTATTTGGGCAATTCCTTATCCAGCTATGGTGTG 720
Db 1034 GGAAGGAGATGATAAAGCAGATGTTTATTTGGGCAATTCCTTATCCAGCTATGGTGTG 1093
QY 721 GGCACCTGCTTCTTCATCAATTTTATAGCCATTTTATACCAGCTTCAAGAGCCATTCCT 780
Db 1094 GGCACCTGCTTCTTCATCAATTTTATAGCCATTTTATACCAGCTTCAAGAGCCATTCCT 1153
QY 781 TTTGGACAATGGTGGCGGTTGTTGATCTGTTTCTGTTTCTTCTCTCTCTCTCTCTCT 840
Db 1154 TTTGGACAATGGTGGCGGTTGTTGATCTGTTTCTGTTTCTTCTCTCTCTCTCTCTCT 1213
QY 841 GTTGGTCAATPACTTGGCCGAAATCTCTCAGGTGAGCCCAATTTCTTCTGCTGTCAT 900
Db 1214 GTTGGTCAATPACTTGGCCGAAATCTCTCAGGTGAGCCCAATTTCTTCTGCTGTCAT 1273
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Db 1334 CTGGGTGGAATTTTACCTTTTGGTTCAATCTTTTATGGAATGATTTTCAATCTTCTG 1393
QY 1021 TTTGGGCAATAGATCTATATGCTATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1080
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RESULT 2

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US-09-786-681A-1
; Sequence 1, Application US/09786681A
; Patent No. 6692926
; GENERAL INFORMATION:
; APPLICANT: HIDAKA, Jun et al.
; TITLE OF INVENTION: RECOMBINANT HUMAN SM-11044-BINDING RECEPTOR PROTEINS EXHIBITING I
; TITLE OF INVENTION: BINDING ACTIVITIES, AND THEIR USES

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; FILE REFERENCE: 0020-4827P
; CURRENT APPLICATION NUMBER: US/09/786,681A
; CURRENT FILING DATE: 2001-01-24
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1
; LENGTH: 2072
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (49)..(1794)
US-09-786-681A-1

Query Match 100.0%; Score 1317; DB 4; Length 2072;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1317; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 61 GATTACTATCTTTGGACCTATAAAAACTTGAATAGTGTTTTAATGGAATCGAATGTT 120
Db 481 GATTACTATCTTTGGACCTATAAAAACTTGAATAGTGTTTTAATGGAATCGAATGTT 540
QY 121 GATGTTAATTAACCTAGTGAAGGAAAGTGAACCTGTTCCAAATCTTAAATCCAGATG 180
Db 541 GATGTTAATTAACCTAGTGAAGGAAAGTGAACCTGTTCCAAATCTTAAATCCAGATG 600
QY 181 TCATATTCAATTAATGAAAAAGTCAAGTGTGAAATTTTGAAGATCGAATTTGACAAAT 240
Db 601 TCATATTCAATTAATGAAAAAGTCAAGTGTGAAATTTTGAAGATCGAATTTGACAAAT 660
QY 241 CTGGATCGTCTCTTTTTCACATCGGATTCATTTGTTTCAATTTTCACTCTCTCATG 300
Db 661 CTGGATCGTCTCTTTTTCACATCGGATTCATTTGTTTCAATTTTCACTCTCTCATG 720
QY 301 ATGGTGATCTTTTGGTGGCTTAGTTTCAATGATTTTAAATGAGAACATTAAGAAAAAG 360
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QY 361 TATGCTCGTACAGTAAAGAGAGAAATGATGATATGGATAGACACCTAGGAGTAA 420
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Db 841 TATGATGGAACAGGTGCTAGGAGATGATTTTAGACCATCAAGTCAACCACTGATATTT 900
QY 481 TCCTCTCTGATGTTCTGGAATGTCAGATATTTGCTGTGCTCTCATCGTTATTTGTT 540
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Db 1081 GGAAGGAGATGATAAAGCAGATGTTTATTTGGGCAATTCCTTATCCAGCTATGGTGTG 1140
QY 721 GGCACCTGCTTCTTCATCAATTTTATAGCCATTTTATACCAGCTTCAAGAGCCATTCCT 780
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Db 1321 GCTGTGCTCGTCTCTATACCGGAGAAAATGGTTTCATGAGCGCTGCGGTATTGTTTCG 1380
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Db 1381 CTGGGTGGAAATTTACCTTTGGTTGGTTCAACTTTTATTGAAATGATTTCATCTTCAGTCT 1440
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Db 1621 TATTCCTTTTACTACTATTTTTCAAAACAAAGATGATGGCTTATTTCAAAACATCATTT 1680
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RESULT 3
US-09-621-976-18829
; Sequence 18829, Application US/09621976
; Patent No. 6639063
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Jobert, S.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: ESTs and Encoded Human Proteins.
; FILE REFERENCE: GENSET.054PR2
; CURRENT APPLICATION NUMBER: US/09/621.976
; CURRENT FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 19335
; SOFTWARE: Patent.pm
; SEQ ID NO 18829
; LENGTH: 444
; TYPE: DNA
; ORGANISM: Homo sapiens
Query Match 33.7%; Score 444; DB 4; Length 444;
Best Local Similarity 100.0%; Pred. No. 1.le-108; Mismatches 0; Indels 0; Gaps 0;
Matches 444; Conservative 0;

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Db 1 CTAATACTAGTAAGGAAGGTAAGTGTGCTTCCAAATACTAAATCCAGATGTCATATTC 60
QY 190 GTAAATGGAAAAAGTCAGATGTGAATTTGAAGATCGATTGACAAATATCTTGATCCG 249
Db 61 GTAAATGGAAAAAGTCAGATGTGAATTTGAAGATCGATTGACAAATATCTTGATCCG 120
QY 250 TCCTTTTTCACATCGGATTCATGTTTTCATTTTCAATTTTCACTCCCTTCATGATGGTATC 309
Db 121 TCCTTTTTCACATCGGATTCATGTTTTCATTTTCAATTTTCACTCCCTTCATGATGGTATC 180
QY 310 TTCTTGTGGCGCTTAGTTTCAATGATTTTAAATGAGAACATTAGAAAAAGATTATGTCGG 369
Db 181 TTCTTGTGGCGCTTAGTTTCAATGATTTTAAATGAGAACATTAGAAAAAGATTATGTCGG 240
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QY 370 TACAGTAAGAGGAGAAATCGATGATATGATAGACCTAGGAGATGAATATGGATGG 429
Db 241 TACAGTAAGAGGAGAAATCGATGATATGATAGACCTAGGAGATGAATATGGATGG 300
QY 430 AAACAGGTGCGATGGAGATGATTTTAGACCATCAAGTCAACCACTGATATTTTCTCTCTG 489
Db 301 AAACAGGTGCGATGGAGATGATTTTAGACCATCAAGTCAACCACTGATATTTTCTCTCTG 360
QY 490 ATTGTTCTGATGTCAGATATTTGCTGTGTCTCTCATCGTTATATTTGTTGCAATGATA 549
Db 361 ATTGTTCTGATGTCAGATATTTGCTGTGTCTCTCATCGTTATATTTGTTGCAATGATA 420
QY 550 GAAGATTTATATATCTAGAGAGGGA 573
Db 421 GAAGATTTATATCTAGAGAGGGA 444

RESULT 4
US-09-513-999C-3708
; Sequence 3708, Application US/09513999C
; Patent No. 6783961
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Duclet, A.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; FILE REFERENCE: 59 US2 REG
; CURRENT APPLICATION NUMBER: US/09/513,999C
; CURRENT FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/122,487
; PRIOR FILING DATE: 1999-02-26
; NUMBER OF SEQ ID NOS: 36681
; SOFTWARE: Patent.pm
; SEQ ID NO 3708
; LENGTH: 440
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 180...440
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 151
; OTHER INFORMATION: m=a or c
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 155
; OTHER INFORMATION: s=g or c
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 162
; OTHER INFORMATION: k=g or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 184
; OTHER INFORMATION: n=a, g, c or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 323
; OTHER INFORMATION: w=a or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 343
; OTHER INFORMATION: n=a, g, c or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 397
; OTHER INFORMATION: m=a or c
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 400
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Query Match	28.1%	Score 369.8	DB 4	Length 771
Best Local Similarity	67.7%	Pred. No. 7.7e-88		
Matches 518	Conservative 0	Mismatches 247	Indels 0	Gaps 0
Qy	190	GTAAATGGAAAAAGTCAGATGTCGAATTTGAAGATCGATTGACAAATATCTTGATCCG	249	
Db	765	GTCACTGGAGCCACAGAGTGGAGTTCAAGNATCGATTGACAGTAGTACCTGGATCCC	706	
Qy	250	TCCTTTTTCAACATCGGATTCATATGGTTTTCAAATTTTCAACTCCTTCATGATGGTGATC	309	
Db	705	AACTTCTCCAGCACAGGATCCACTGGTTCAGGATCTTCAACAGCTTCATGATGGTCAATC	646	
Qy	310	TTCTGTGTGGGCTTAGTTTCCAATGATTTTAAATGAGAACATTAGAAAAGATTATGCTCGG	369	
Db	645	TTCTGTGTGGGCTGGTGTCCATGATTCTGATGCGAACTCTGGCGCAGGATTATGCTCGG	586	
Qy	370	TACAGTAAAGAGGAAGAAATGGATGATCGATAGAGACCTTAGGAGATGAATATGGATGG	429	
Db	585	TACAGTAAGCAGGAGAAATCGACGACATGGAGCGAGATCTTGATGATGAATACCGCTGG	526	
Qy	430	AAACAGGTGATCGAGATGTATTTAGACCATCAAGTCAACCACTGATATTTCTCTCTCTG	489	
Db	525	ARGCAGGTGATGGCGATGTCCTCCGTTCTCCGCCCAACACATGCTCTCTCTCGCGGTG	466	
Qy	490	ATTGGTTCTGGATGTGAGATATTTGCTGTGTCTCTCATCGTTATTTATTTGTCGAATGATA	549	
Db	465	GTGGCGCTGGATACCAACTGAATTCGGTTGTATTTCTGTGTGATCATGTTTCGCCATAGTT	406	
Qy	550	GAGATTTATATCTAGAGGGGATCAATGCTCAGTACAGCCATATTTGTCATGCTGCT	609	
Db	405	GGTGAATGTACACGGAACGGCTCATGCTGTCCACGGCTATATTTGTGTATGCGGCC	346	
Qy	610	ACGTCCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATCTAGACAAGAGGAGGAGAGA	669	
Db	345	ACCTCACCAATCAATGGATATTTTGGAGGATCGCTCTATGCCCGCTGGGTGGACGCATG	286	
Qy	670	TGATAAAGCAGATGTTTATTTGGGCATTCCTTATCCAGCTATGTGTGTGGCACTGCC	729	
Db	285	TGGATCCGACAGATGCTGTGTCCGCTTTTACAGTTCCAGTGGCTGTGTGCGGCAAGGCT	226	
Qy	730	TTCTTCATCAATTTATAGCCATTATTAACATGTCTTCAAGAGCCATTCCTTTTGGAAACA	789	
Db	225	TTCTGTATCAACTTCATTGCCATTGGATATCAAGCTTCGAGAGCCATTCCTTCGGTACC	166	
Qy	790	ATGGTGGCGGTTGTGGCATCTGTTTTTTTTTGTATTCTTCTCTAAATCTTTGTGTGTACA	849	
Db	165	ATGGTGGCGGTACGTGTGCATCTGCCCTGTTTGTATCCTCTGCCCTTGACTCTGTGTGGTACT	106	
Qy	850	ATACTTTGGCCGAATCTGTCCAGTTCAGGCCAACTTTCTTTGCTGTGTGTCATATGCTGSCCT	909	
Db	105	GTGCTGGGCGCAATCTGGACGGCCAAACGGACCTTCCATGCGCGGTCAACGGCGGTGCCA	46	
Qy	910	CGTCTTATACCGGAGAAAAAATGGTTTCATGGAGCCTGCGGTATT	954	
Db	45	CGACCCCATTTCCGAAAGAAAGTGGTACATGAGGCCACTGATTATT	1	

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RESULT 6
US-09-270-767-15961/c
; Sequence 15961, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 15961
; LENGTH: 771
; TYPE: DNA

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; ORGANISM: Drosophila melanogaster
; US-09-270-767-15961
;
; Query Match      28.1%; Score 369.8; DB 4; Length 771;
; Best Local Similarity 67.7%; Pred. No. 7.7e-89;
; Matches 518; Conservative 0; Mismatches 247; Indels 0; Gaps 0;
;
QY 190 GTAAATGGAAGAGTACAGATGCTGAATTTGAAGATCGATTGACAAATATCTTGATCCG 249
Db 765 GTCAACTGGAAGCCAGCAGAGTGAGTTCAAGAAATCGATTGCAAGATACCTGGATCCC 706
QY 250 TCCTTTTTCACATCGGATTCATTGGTTTTCATTTTCAACTCCITTCATGATGATC 309
Db 705 AACTTCTCCAGCACAGGATCCACTGGTTCAGCATCTTCAACAGCTTCATGATGTCATC 646
QY 310 TTCTTGGTGGGCTTAGTTCATGATTTTAATGATGACATTAAGAAAAGATTAATGCTCG 369
Db 645 TTCTTGGTGGGCTTGGTGTCCATGATTCGTGATGGAATCTGGCAAGGATTAATGCTCG 586
QY 370 TACAGTAAGAGGAGAAATGGATGATATGGATAGAGACCTAGGAGATGAATATGGATGG 429
Db 585 TACAGTAAGAGCAGGAAATCGACATGAGCGAGATCTTGGTATGATACGGCTGG 526
QY 430 AAACAGTGTGATGAGATGATTAATAGACCATCAAGTCAACCATGATTAATTTCTCTCTG 489
Db 525 AAGCAGGTGATGCGATGCTTCCGTTCTCCGCCAACACACTGCTCTTCTCGGGCTTG 466
QY 490 ATTGTTCTGATGTCAGATATTGCTGTGTCCTCATCTGTTATTATTGTTGCAATGATA 549
Db 465 GTGGCGGTGATACCAACTGATTTCCGTTGTTATCTTGTGATCATGTTCCGCCATAGTT 406
QY 550 GAAGATTATATACAGAGGGATCAATGCTCAGTACAGCCATATTGTTCTATGCTGCT 609
Db 405 GGTGAATTGTACACGGAACGGGCTCCATGCTGTGCCGCTATATTGTGATGCCGCC 346
QY 610 ACGTCTCCAGTGAATGTTATTTGGAGGAGTCTGTATGCTAGACAAGAGGAGAGAGA 669
Db 345 ACCTCACCAATCAATGATTAATTTGGAGGATCGCTCTATGCCCGCTGGTGGACGCATG 286
QY 670 TGGATAAGCAGATGTTTATTTGGGGCATTCCTATCCAGCATGTTGTTGTCGACCTGCC 729
Db 285 TGGATCCGACAGATGCTGGTTCGCTTTTACAGTTCAGTGGCTGTGTCGGCACGGCT 226
QY 730 TTCTTCATCAATTCATAGCATTTATACATGCTTTCAAGAGCCATTCCTTTTGAACA 789
Db 225 TTCTGTATCAACTTCATTGCCAATGGATATCACGCTTCGAGAGCCATTCCTTCGGTACC 166
QY 790 ATGTTGGCGGTTTCTTCATCTGTTTCTGTTTCTCTCTCTAAATCTTGTGTTGATCA 849
Db 165 ATGTTGGCGGTCAGTGCATCTGCTGTTTGTCTATCTGCTGCTGCTGCTGCTGCTGCT 106
QY 850 ATACTTGGCCGAATCTGTCAAGTCAAGCCCAACTTTCTGCTGTCAATGCTGTGCTCT 909
Db 105 GTCGTGGCGCCCAATCTGGACGGCAACCGGACTTTCCATGCGCGCTCAACCGCGTGCCA 46
QY 910 CGTCTTACCGGAGAAATGTTTCATGAGCGCTCGGTTATT 954
Db 45 CGACCCATTCGCGAAAGAGTGGTATCATGAGCCACTGATTATT 1

RESULT 7
US-09-959-004-6
; Sequence 6, Application US/08959004
; Patent No. 6197543
; GENERAL INFORMATION:
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Yue, Henry
; APPLICANT: Corley, Neil C.
; APPLICANT: Lal, Preeti
; APPLICANT: Shah, Furvi
; APPLICANT: Kaser, Matthew
; TITLE OF INVENTION: HUMAN VESICLE MEMBRANE PROTEIN-LIKE
; TITLE OF INVENTION: PROTEINS
```

Db 1452 CTTTGGAGGTGAGAGTGGAAACAAATGTTTTATTAAATCATCTTCTTGGTCCGGGA 1511  
Qy 713 TGGTGTGGGACATGCTCTTCTCATCAATTCATAGCCATTTATTACCATGCTTCAAGAG 772  
Db 1512 TTGTTATTGCTGACTTCTTTTATAATGAATCTGATCTCTGGGAGAGGATCTTTCAGCAG 1571  
Qy 773 CCATTCCTTTTGGAAACATGGTGGCCCTTGTGTCATCTGTTTTTTTGGTTATTTCTTCCCTC 832  
Db 1572 CTATTCCTTTTGGGACACTGGTGTCCCATATTGGCCCTTGGGCTTCTGCAATCTGTGGCTC 1631  
Qy 833 TAAATCTTGTGTGATCAATCTTGGCCGAAATCTGTGAGTCAGCCCAACTTTCTTGTGTC 892  
Db 1632 TGACGTTTATTGGTGATCACTTTTGGTTTTAAGAAGATGCAATGAACAC---CCAGTTC 1688  
Qy 893 GTGTCAATGCTGCTCGTCCCTATACGGGAGAAATGTTTCATGGAGCCTGCGGTTA 952  
Db 1689 GAACCAATCAAGATCCACGTCAGATTCCTGAACAGTCTGTTACACGAAGCCCTTGCCTG 1748  
Qy 953 TTGTTTGGCTGGGTGGAATTTTACCTTTTGGTTCAATCTTTTATTTGAAATGATTTTCATCT 1012  
Db 1749 GTATTATCAATGGAGGGATTTTGGCCCTTGGCTGCACTTTTATACAACTTTTCTTCATTC 1808  
Qy 1013 TCAGTCTTCTGGGACATGAAGATCTATTATGTCATGCTGCTCATGATGCTGGTGTGG 1072  
Db 1809 TGAATAGTATTGTGTCACACAGATGATTACATGTTTGGCTTCTTCTTCTGTTGTTT 1868  
Qy 1073 TTATCCTGTGCATTTGCTGCTGTGTGACTATTGTGTCACATATTTTCTACTAAATG 1132  
Db 1869 TCAATTTGGTTATTCACCTGTCTGAAAGCACTATCTTCTTGTCTATTTCCACCTATGIG 1928  
Qy 1133 CAGAAGATTACCGTGGCAATGGAACAAAGTTTCTCTGTGTCATCAACTGCAATCTATG 1192  
Db 1929 CAGAGGATTATCATTTGGCAATGGGCTTCATTCCTTACGAGTGGCTTTTACTGCGAGTTTAT 1988  
Qy 1193 TTTACATGATCTCTTTTACTACTATTTTTCACAAACAAAGATGATGCTTATTTTCAA 1252  
Db 1989 TCTTAATCTAGCAGTACACTACTCTTTTCAAACCTGCAATCAGGGAACAGCAAGCA 2048  
Qy 1253 CATCATTTTACTTTGGATATATGGCGTATT 1283  
Db 2049 CAATCTGACTTTTGGTTATACCATGATAAT 2079

RESULT 8  
US-09-270-767-28434  
; Sequence 28434, Application US/09270767  
; Patent No. 6703491  
; GENERAL INFORMATION:  
; APPLICANT: Homburger et al.  
; TITLE OF INVENTION: Nucleic acids and proteins of *Drosophila melanogaster*  
; FILE REFERENCE: File Reference: 7326-094  
; CURRENT APPLICATION NUMBER: US/09/270,767  
; CURRENT FILING DATE: 1999-03-17  
; NUMBER OF SEQ ID NOS: 62517  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 28434  
; LENGTH: 571  
; TYPE: DNA  
; ORGANISM: *Drosophila melanogaster*  
US-09-270-767-28434

Query Match 14.7%; Score 193; DB 4; Length 571;  
Best Local Similarity 73.3%; Pred. No. 7.7e-42;  
Matches 247; Conservative 0; Mismatches 50; Indels 0; Gaps 0;  
Qy 974 TACCTTTGGTTCATCTTTTATGAATGATTTTCAATCTTCACTTCTTCTGGGCATATA 1033  
Db 1 TGGCCCTTGGATCCATCTTCTTATGAGATGATCTTCACTTCCCTCTTCTTCTGGCGGTACA 60  
Qy 1034 AGATCTATTATGCTATGCTTCTGCTGATCACTGCAATCTATGTTTACATGTTTCTTCTTACT 1093  
Db 61 AGATCTACTAGCTACGCTTACGCTTCTATGTTTGGTTCAGATCTGACTGTGTGTCACCG 120

Qy 1094 TCTGTGTGACTATTCTGTGCACATATTTTCTAAATGCAAGATTTACCGTGGCAAT 1153  
Db 121 TGTGGTGCACATCGTGTGCACCTACTTCTGCTAAATGCCGAGATTTACCGATGGCAGT 180  
Qy 1154 GGACAAGTTTCTCTCTGCTGCATCAACTGCAATCTATGTTTACATGTTTCTTCTTACT 1213  
Db 181 GGACGAGTTTCTATGCTCGGGCTCCAGTGCATTTACGTGTAGCCCTATTCTTCTTATT 240  
Qy 1214 ACTATTTTTCAAAACAAAGATGATGCTTATTTCAAACATCATTTTACTTTGGATATA 1273  
Db 241 ACTTCTTCTTTAAACCAAAATGTTGCTCTGTTCCAAACGCGCTTCTACTTTGGCTACA 300  
Qy 1274 TGGCGGTATTAGCACAGCCTTGGGGATAATGTGTGG 1310  
Db 301 TGGCACTCTTTCAGCGGCGCTTGGGCATTATCTGCGG 337

RESULT 9  
US-09-270-767-12633  
; Sequence 12633, Application US/09270767  
; Patent No. 6703491  
; GENERAL INFORMATION:  
; APPLICANT: Homburger et al.  
; TITLE OF INVENTION: Nucleic acids and proteins of *Drosophila melanogaster*  
; FILE REFERENCE: File Reference: 7326-094  
; CURRENT APPLICATION NUMBER: US/09/270,767  
; CURRENT FILING DATE: 1999-03-17  
; NUMBER OF SEQ ID NOS: 62517  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 12633  
; LENGTH: 1151  
; TYPE: DNA  
; ORGANISM: *Drosophila melanogaster*  
US-09-270-767-12633

Query Match 14.7%; Score 193; DB 4; Length 1151;  
Best Local Similarity 73.3%; Pred. No. 1.1e-41;  
Matches 247; Conservative 0; Mismatches 90; Indels 0; Gaps 0;  
Qy 974 TACCTTTGGTTCATCTTTTATGAATGATTTTCAATCTTCACTTCCCTCTTCTTCTGGGCATATA 1033  
Db 1 TGGCCCTTGGATCCATCTTCTTATGAGATGATCTTCACTTCCCTCTTCTTCTGGCGGTACA 60  
Qy 1034 AGATCTATTATGCTATGCTTCTGCTGATGCTGCTGCTGTTTATCTGTGCAATTTGTGACTG 1093  
Db 61 AGATCTACTAGCTACGCTTACGCTTCTATGTTTGGTTCAGATCTGACTGTGTGTCACCG 120  
Qy 1094 TCTGTGTGACTATTGTGTGCACATATTTTCTAAATGCAAGATTTACCGTGGCAAT 1153  
Db 121 TGTGGTGCACCATCGTGTGCACCTACTTCTGCTAAATGCCGAGATTTACCGATGGCAGT 180  
Qy 1154 GGACAAGTTTCTCTCTGCTGATCACTGCAATCTATGTTTACATGTTTCTTCTTACT 1213  
Db 181 GGACGAGTTTCTATGCTCGGGCTCCAGTGCATTTACGTGTAGCCCTATTCTTCTTATT 240  
Qy 1214 ACTATTTTTCAAAACAAAGATGATGCTTATTTCAAACATCATTTTACTTTGGATATA 1273  
Db 241 ACTTCTTCTTTAAACCAAAATGTTGCTCTGTTCCAAACGCGCTTCTACTTTGGCTACA 300  
Qy 1274 TGGCGGTATTAGCACAGCCTTGGGGATAATGTGTGG 1310  
Db 301 TGGCACTCTTTCAGCGGCGCTTGGGCATTATCTGCGG 337

RESULT 10  
US-09-248-796A-6208  
; Sequence 6208, Application US/09248796A  
; Patent No. 6747137  
; GENERAL INFORMATION:  
; APPLICANT: Keith Weinstock et al  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICANS  
; FILE REFERENCE: 107196.132

```

; CURRENT APPLICATION NUMBER: US/09/248,796A
; CURRENT FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 6208
; LENGTH: 726
; TYPE: DNA
; ORGANISM: Candida albicans
US-09-248-796A-6208

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Query Match	9.7%;	Score 114.6;	DB 4;	Length 726;
Best Local Similarity	51.7%;	Pred. No. 6.4e-21;		
Matches 286;	Conservative 0;	Mismatches 264;	Indels 3;	Gaps 1;
Qy	658	GGAGGAAGGAGATCGATAAAGACAGATGTTTATTTGGGCAATCCCTTATCCAGACTATGGTG	717	
Db	13	GGTGGTGACAAATGGAAATTTGAAATATGTTTTTGACACCAAGTTTTAGTAGCACAGGATTTTG	72	
Qy	718	TGIGGCACTGCGTCTTCATCAAAATTCATAGCCAAATTTATACCATGTTTCAAGAGCCATT	777	
Db	73	TCCTCGTGGTTTCGGTGTGTTGAAATTCCTTTTAATTCAGTGACAAATCTTTGGTGGCTATT	133	
Qy	778	CCCTTTGGAAACAATGGTGGCCGTTTGTGTCATCTGTTTTTTTGTATTCTTCCCTCTAAAT	837	
Db	133	CATATGGGACAATGTTTGGCAATGTCCTAATTTGGTTCATATATCGAATCCATTAAAT	192	
Qy	838	CTTGTTGGTACAACTACTTGGCCGAAATCTGTGAGTCCAGGTCAGGCCCACTTCTCTGTCGNGTC	897	
Db	193	GTTATTGGATCAATTTTAGCTAGTAATAGACCATATTATTC---GGTACAGTGAGAACT	249	
Qy	898	AATGCTGTGCTCGTCTCTATACCGAGAAATAAATGGTTCATGGAGCTGCGGTTATTGTT	957	
Db	250	AATCAAAATCCAGACAAATTCCTACTCAACCATGGTATTTAAGTACTATCCCGGTAATG	309	
Qy	958	TGCGTGGTGGAATTTTACCTTTTGGTTCAAATCTTTATGAAATGTATTTCACTTCCACG	1017	
Db	310	TTTATTTCGGGAATTTTCCCAATTTGGATCAATTCGCTGGAAATGATTTTATTATTCA	369	
Qy	1018	TCCTTCGGGCAATATAGACTATATATGCTATGGCTTCATGATGCTGGTGTGCTGGTATC	1077	
Db	370	TCAATTTGGTTTAAATAAGATTTTATATGTTGGATTTTTTATTTTTCTGTTTCATATTA	429	
Qy	1078	CTGTGCATCTGACTGTCTGTGTCATTTGTGTGCACATATTTCTACTAAATGCAGAA	1137	
Db	430	ATGAATTTAACTAGTAGTTTAATTAATTAATTTTAAATGATTTATTATATCTTTATGTTCA	489	
Qy	1138	GATTACCGGTGGCAATGGAAGAATTTCTCTGCTGCATCAACTGCAATCTATGTTTAC	1197	
Db	490	AATTATAAATGGCAATGGAATCAATTTATTTGTTGGAGAGGTTGTGCAATTTATGTATTT	549	
Qy	1198	ATGTATTCCTTTT	1210	
Db	550	ATTCAATCAATTT	562	

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RESULT 11
US-09-313-294A-2292
; Sequence 2292, Application US/09313294A
; Patent No. 6476212
; GENERAL INFORMATION:
; APPLICANT: Ialgudi, Ragunath v.
; APPLICANT: Ito, Laura Y.
; APPLICANT: Sherman, Bradley K.
; TITLE OF INVENTION: POLYNUCLEOTIDES AND POLYPEPTIDES DERIVED FROM CORN EAR
; FILE REFERENCE: PL-0017 US
; CURRENT APPLICATION NUMBER: US/09/313,294A
; CURRENT FILING DATE: 1999-05-14
; NUMBER OF SEQ ID NOS: 7600
; SOFTWARE: PERL Program
; SEQ ID NO 2292

```

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; LENGTH: 262
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. 6476212 700552439H1
US-09-313-294A-2292

Query Match          7.6%; Score 100; DB 4; Length 262;
Best Local Similarity 68.3%; Pred. No. 3.1e-17;
Matches 153; Conservative 0; Mismatches -70; Indels

Qy 1094 TCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAGAGATTAC
Db 39 TCTCGTGCATATTGTGGTACTATTTCCTTGCTGAACGCCGAGAACTAC
Qy 1154 GGACAAGTTTTCTCTGCTGCATCAACTGCAATCTATGTTTACATGTAT
Db 99 GGACGTGCTTTTCTTCTGCACGGTCAACGGCTCTGTAGTGTATCTGTAC
Qy 1214 ACTATTTTTTCAAACAAGAAGATGTATGGCTTATTTTCAAACATCATTTTAC
Db 159 ACTACCATGTGAAGCAAGAAGATGCAGGCTTCTCCAGNCAAGTTTCTAT
Qy 1274 TGGCGGTATTTAGCACACGCTTTGGGGAATAATGTGTGGAGCGGATT 1317
Db 219 CGCTGATGTTCTGC-CTGGCCCTAGCACTACTTTGTGGAGCTATT 261

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RESULT 12
US-09-385-982-530/c
; Sequence 530, Application US/09385982
; Patent No. 6262334
; GENERAL INFORMATION:
; APPLICANT: ENDEGE, WILSON O., ET AL.
; TITLE OF INVENTION: NOVEL HUMAN GENES AND GENE EXPRESSION
; TITLE OF INVENTION: PRODUCTS: 11
; FILE REFERENCE: CCDNA-260XX
; CURRENT APPLICATION NUMBER: US/09/385,982
; CURRENT FILING DATE: 1999-08-30
; EARLIER APPLICATION NUMBER: 09/328,111
; EARLIER FILING DATE: 1999-06-08
; EARLIER APPLICATION NUMBER: 60/117,393
; EARLIER FILING DATE: 1999-01-27
; EARLIER APPLICATION NUMBER: 60/098,639
; EARLIER FILING DATE: 1998-08-31
; NUMBER OF SEQ ID NOS: 544
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 530
; LENGTH: 769
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (1)...(769)
; OTHER INFORMATION: n = A,T,C or G
US-09-385-982-530

```

	Query Match	7.0%	Score 91.6	DB 3	Length 769	
	Best Local Similarity	57.0%	Pred. No. 8.7e-15			
	Matches 166	Conservative 0	Mismatches 125	Indels 0	Gaps 0	
QY	905	TGCTCGTCTATACCGGAAAAATGGTT	CATGAGCGCTGGGTTATTGTTTGCTCGG	964		
Db	308	TCCACNGTCAGATTCCGGAACGTGCTT	CACAGAGCCCTTGCCTGGTATTATCA	249		
QY	965	GTGGAAATTTTACCTTTTGGTTTCAAT	CTTTATGAAATGTATTTTCATCTT	CACGCTCTTTCT	1024	
Db	248	GAGGGAATTTGCCCTTTGGCTGCGAT	CTTTATACAACCTTTTCTTCAATCT	CGAATAGTATTT	189	
QY	1025	GGGCATATAGATCTATTATGTCTATG	CGCTTATGATGCTGGTCTGGTTATCC	TGTGCA	1084	
Db	188	GGTCACACCAAGATGTATTACATGTT	TGGCTTCTCATTTCTGGTGTATCAT	TTTGGTTA	129	

QY 1085 TTGTGACTGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCGAGAGATTACC 1144  
Db 128 TTACCTGTTCTGAAGCAACTATATCTTTTGTCTATTTTCCACCTATGTGCGAGAGATTATC 69  
QY 1145 GGTGGCAATGACAAAGTTTCTCTGCTGCTGATCAACTGCAATCTATGTTT 1195  
Db 68 ATTGGCAATGGCTTCATCTCTACGAGTGGCTTACTGCGAGTTATTTCT 18

## RESULT 13

US-09-513-999C-3502  
; Sequence 3502, Application US/09513999C  
; Patent No. 6783961  
; GENERAL INFORMATION:  
; APPLICANT: Dumas Milne Edwards, J.B.  
; APPLICANT: Duclert, A.  
; APPLICANT: Giordano, J.Y.  
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.  
; Patent No. 6783961  
; FILE REFERENCE: 59 US2 REG  
; CURRENT APPLICATION NUMBER: US/09/513,999C  
; CURRENT FILING DATE: 2000-02-24  
; PRIOR APPLICATION NUMBER: US 60/122,487  
; PRIOR FILING DATE: 1999-02-26  
; NUMBER OF SEQ ID NOS: 36681  
; SOFTWARE: Patent.pm  
; SEQ ID NO 3502  
; LENGTH: 433  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 100...432  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: 86  
; OTHER INFORMATION: m=a or c  
US-09-513-999C-3502

Query Match 5.5%; Score 73; DB 4; Length 433;  
Best Local Similarity 100.0%; Pred. No. 6e-10;  
Matches 73; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 ATGTACATAGATGATTTACCAATATGGGTTATTTGGTAGGCTGATGAAATGGAGAA 60  
Db 361 ATGTACATAGATGATTTACCAATATGGGTTATTTGGTAGGCTGATGAAATGGAGAA 420  
QY 61 GATTACTATCTTT 73  
Db 421 GATTACTATCTTT 433

## RESULT 14

US-09-702-705-1002/c  
; Sequence 1002, Application US/09702705  
; Patent No. 6504010  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Tongtong  
; APPLICANT: Bangur, Chaitanya S.  
; APPLICANT: Lodes, Michael A.  
; APPLICANT: Fanger, Gary  
; APPLICANT: Vedvick, Tom  
; APPLICANT: Carter, Darrick  
; APPLICANT: Retter, Marc  
; APPLICANT: Mannion, Jane  
; APPLICANT: Fan, Liqun  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND  
; FILE REFERENCE: 210121-478C14  
; CURRENT APPLICATION NUMBER: US/09/702,705  
; CURRENT FILING DATE: 2000-10-30  
; NUMBER OF SEQ ID NOS: 1833

; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 1002  
; LENGTH: 302  
; TYPE: DNA  
; ORGANISM: Homo sapien  
; US-09-702-705-1002

Query Match 4.9%; Score 64.6; DB 4; Length 302;  
Best Local Similarity 56.2%; Pred. No. 8.8e-08;  
Matches 149; Conservative 0; Mismatches 104; Indels 12; Gaps 1;

QY 243 TGATCCGTCCTTTTTCACATCGGATTCATGTTTCAATTTTCAACTCCTTCATGAT 302  
Db 253 TTACCTGACCATGAGTCAGTCGTCAGATCCACTGGTTTCTATCATTAACCTCCGTTGTGT 194  
QY 303 GGTGATCTTCTTGTGGGCTTAGTTTCAATGATTTTATGAGAACATTAAAGAAAGATTA 362  
Db 193 GGTCTTCTTCTGTCAGGATATCTCGAGCATGATATCATTCGGACCCCTCCGGAAGGACAT 134  
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Db 133 TGCCAACTACAAAGAGAGATGACATTGA-----AGACACCATGGAGGAGTC 86  
QY 423 TGGATGGAACAGGTGTCATGAGATGATTTTAGACCATCAAGTCACCCACTGATATTTTC 482  
Db 85 TGGGTGGAAGTTGGTGCACGGCGACGCTTTCAGGCCCCCCCAGTACCCCATGATCCTCAG 26  
QY 483 CTCTCTGATTTGGTTCTCGGATGTCAG 507  
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## RESULT 15

US-09-736-457-1002/c  
; Sequence 1002, Application US/09736457  
; Patent No. 6509448  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Tongtong  
; APPLICANT: Bangur, Chaitanya S.  
; APPLICANT: Lodes, Michael A.  
; APPLICANT: Fanger, Gary  
; APPLICANT: Vedvick, Tom  
; APPLICANT: Carter, Darrick  
; APPLICANT: Retter, Marc  
; APPLICANT: Mannion, Jane  
; APPLICANT: Fan, Liqun  
; APPLICANT: Wang, Aijun  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND  
; FILE REFERENCE: 210121-478C15  
; CURRENT APPLICATION NUMBER: US/09/736,457  
; CURRENT FILING DATE: 2000-12-13  
; NUMBER OF SEQ ID NOS: 1854  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 1002  
; LENGTH: 302  
; TYPE: DNA  
; ORGANISM: Homo sapien  
; US-09-736-457-1002

Query Match 4.9%; Score 64.6; DB 4; Length 302;  
Best Local Similarity 56.2%; Pred. No. 8.8e-08;  
Matches 149; Conservative 0; Mismatches 104; Indels 12; Gaps 1;

QY 243 TGATCCGTCCTTTTTCACATCGGATTCATGTTTCAATTTTCAACTCCTTCATGAT 302  
Db 253 TTACCTGACCATGAGTCAGTCGTCAGATCCACTGGTTTCTATCATTAACCTCCGTTGTGT 194  
QY 303 GGTGATCTTCTTGTGGGCTTAGTTTCAATGATTTTATGAGAACATTAAAGAAAGATTA 362  
Db 193 GGTCTTCTTCTGTCAGGATATCTCGAGCATGATATCATTCGGACCCCTCCGGAAGGACAT 134  
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Db      133  TGCCTACTACACAGGAGGATGACATTGA-----AGACACCATGGAGGATC 86
Qy      423  TGGATGGAACACAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCCACTGATATTTTC 482
Db      85   TGGGTGGAAGTTGGTGCACGGCGACGTCTTCAGGCCGCCGCCAGTACCCCATGATCCTCAG 26
Qy      483  CTCCTGATTTGGTTCTGGATGTCAG 507
Db      25   CTCCTGCTGGGCTCAGGCATTTCAG 1

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Search completed: November 19, 2004, 00:55:05  
 Job time : 120.884 secs



GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: November 19, 2004, 00:39:27 ; Search time 1086.3 Seconds  
(without alignments)  
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Title: US-09-319-724b-2

Perfect score: 1317

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Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Listing first 45 summaries

Database : Published Applications NA:\*

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- 11: /cgn2\_6/ptodata/2/pubpna/US09C\_PUBCOMB.seq:\*
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- 16: /cgn2\_6/ptodata/2/pubpna/US10D\_PUBCOMB.seq:\*
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- 18: /cgn2\_6/ptodata/2/pubpna/US10\_NEW\_PUB.seq:\*
- 19: /cgn2\_6/ptodata/2/pubpna/US11\_NEW\_PUB.seq:\*
- 20: /cgn2\_6/ptodata/2/pubpna/US60\_NEW\_PUB.seq:\*
- 21: /cgn2\_6/ptodata/2/pubpna/US60\_PUBCOMB.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Query Match	Score	Length	ID	Description
1	1317	100.0	3076	9	US-09-915-582-29
2	1317	100.0	3076	15	US-10-277-802-13
3	1317	100.0	3058	14	US-09-814-353-21837
4	1317	100.0	4024	14	US-10-198-846-10005
5	1315.4	99.9	3370	10	US-09-374-046A-25
6	1315.4	99.9	3370	16	US-10-616-263-25
7	1226	93.1	3389	15	US-10-205-219-122
8	709.6	53.9	6197	16	US-10-062-674-197
9	590.4	44.8	1070	16	US-10-264-237-1414
10	537.4	40.8	560	16	US-10-242-535A-2630
11	537.4	40.8	560	16	US-10-085-783A-2630
12	499	37.9	1899	17	US-10-437-963-39405

13	492.6	37.4	1867	9	US-09-915-582-13	Sequence 13, Appl
14	492.6	37.4	1867	15	US-10-277-802-13	Sequence 13, Appl
15	491.6	37.3	2039	16	US-10-425-114-26742	Sequence 28742, A
16	491.6	37.3	2068	18	US-10-425-115-101961	Sequence 101961, A
17	483.6	36.7	2355	17	US-10-739-930-4365	Sequence 4365, A
18	481.8	36.6	2406	17	US-10-437-963-14430	Sequence 14430, A
19	478.4	36.3	1713	9	US-09-887-576-809	Sequence 809, App
20	476.8	35.2	1866	9	US-09-887-576-794	Sequence 794, App
21	472.4	35.9	2461	18	US-10-425-115-140808	Sequence 140808, A
22	461.4	35.0	2698	18	US-10-425-115-140919	Sequence 140919, A
23	454.4	34.5	2152	17	US-10-767-701-12720	Sequence 12720, A
24	449.6	34.1	2316	17	US-10-437-963-658	Sequence 658, App
25	435.4	33.1	1803	9	US-09-887-576-812	Sequence 812, App
26	416.4	31.6	419	10	US-09-918-995-3956	Sequence 3956, App
27	409.6	31.1	497	11	US-09-969-034-1724	Sequence 1724, App
28	406.4	30.9	1535	18	US-10-425-115-21677	Sequence 21677, A
29	406.2	30.8	459	16	US-10-062-674-445	Sequence 445, App
30	365.6	27.8	455	15	US-10-002-631C-133	Sequence 133, App
31	365.6	27.8	455	15	US-10-002-631C-134	Sequence 134, App
32	284.2	21.6	731	16	US-10-333-184-388	Sequence 388, App
33	280.4	21.3	2032	18	US-10-425-115-21679	Sequence 21679, A
34	276.6	21.0	2748	16	US-10-424-599-103451	Sequence 103451, A
35	274.4	20.8	1033	16	US-10-425-114-16392	Sequence 16392, A
36	273.8	20.8	529	14	US-10-198-846-11456	Sequence 11456, A
37	262.6	19.9	600	17	US-10-021-323-3365	Sequence 3365, App
38	248.4	18.9	673	14	US-10-498-846-2790	Sequence 2790, App
39	227	17.2	2176	16	US-10-424-599-31527	Sequence 31527, A
40	224.2	17.0	2314	17	US-10-767-701-13950	Sequence 13950, A
41	222.2	16.9	1346	17	US-10-767-795-636	Sequence 636, App
42	221	16.8	2101	16	US-10-425-114-3633	Sequence 3633, App
43	219.4	16.7	3097	18	US-10-425-115-17630	Sequence 17630, A
44	218.2	16.6	2099	17	US-10-437-963-18458	Sequence 18458, A
45	216.2	16.4	2095	16	US-10-425-114-5124	Sequence 5124, App

## ALIGNMENTS

RESULT 1  
US-09-915-582-29  
; Sequence 29, Application US/09915582  
; Patent No. US20020120103A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: 17 Human Secreted Proteins  
; FILE REFERENCE: PS723P1  
; CURRENT APPLICATION NUMBER: US/09/915,582  
; CURRENT FILING DATE: 2001-07-27  
; PRIOR APPLICATION NUMBER: PCT/US01/01431  
; PRIOR FILING DATE: 2001-01-17  
; PRIOR APPLICATION NUMBER: 60/179,065  
; PRIOR FILING DATE: 2000-01-31  
; PRIOR APPLICATION NUMBER: 60/180,628  
; PRIOR FILING DATE: 2000-02-04  
; PRIOR APPLICATION NUMBER: 60/231,968  
; PRIOR FILING DATE: 2000-09-12  
; NUMBER OF SEQ ID NOS: 97  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 29  
; LENGTH: 3076  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: SITE  
; LOCATION: (3064)  
; OTHER INFORMATION: n equals a,t,g, or c  
US-09-915-582-29

Query Match 100.0%; Score 1317; DB 9; Length 3076;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1317; Conservative 0; Mismatches 0; Gaps 0;

QY 1 ATGTACATAGATGATTACCAATATGGGTATTGTGTGGCTGATGAAATGGAGAA 60

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Db 352 ATGPACATAGATGATTTACCAATATGGGGTATTTGGTGAGGCTGATGAAATGAGAA 411
Qy 61 GATTACTATCTTTGGACCTATAAAAACTTTGAAATAGGTTTAAATGGAATCGAATGTT 120
Db 412 GATTACTATCTTTGGACCTATAAAAACTTTGAAATAGGTTTAAATGGAATCGAATGTT 471
Qy 121 GATGTTAATCTAAGTGAAGGAAAGTGAAGTGGTCCCAATCTAATAATCCAGATG 180
Db 472 GATGTTAATCTAAGTGAAGGAAAGTGAAGTGGTCCCAATCTAATAATCCAGATG 531
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Db 532 TCATATTCAATGAAATGAAATGAAATGAAATGAAATGAAATGAAATGAAATGAAAT 591
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Db 592 CTTCATCGCTCTTTTCAACATCGGATTCATTTGGTTTCAATTTTCACTCTCTTCATG 651
Qy 301 ATGCTGATCTCTTGGTGGCTTAGTTTCAATGATTTTAAATGAGAAATTAAGAAAGAT 360
Db 652 ATGCTGATCTCTTGGTGGCTTAGTTTCAATGATTTTAAATGAGAAATTAAGAAAGAT 711
Qy 361 TATGCTCGGTACAGTAAAGAGAAAGAAATGATGATATGATGAGACCTAGGAGATGAA 420
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Qy 421 TATGATGGAACAGGTGCGATGAGATGATTTAGACCATCAAGTCAACCCACCTGATATT 480
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Qy 541 GCATGATAGAGATTTATATCTAGAGAGGATCAATGCTCAGTACAGCCATTTTGTTC 600
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Qy 601 TATGCTGCTAGCTCTCAGTGAATGGTTATTTTGGAGGAGTCTGTATGCTAGCAAGGA 660
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Db 1012 GGAAGGAGATGGAATAAGCAGATGTTATTTGGGGCATTCCTATCCAGCTATGGTGTG 1071
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RESULT 2
US-10-277-802-29
; Sequence 29, Application US/10277802
; Publication No. US20030190707A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: 17 Human Secreted Proteins
; FILE REFERENCE: PS723PI
; CURRENT APPLICATION NUMBER: US/10/277,802
; CURRENT FILING DATE: 2002-10-23
; PRIOR APPLICATION NUMBER: 09/915,582
; PRIOR FILING DATE: 2001-07-27
; PRIOR APPLICATION NUMBER: PCT/US01/01431
; PRIOR FILING DATE: 2001-01-17
; PRIOR APPLICATION NUMBER: 60/179,065
; PRIOR FILING DATE: 2000-01-31
; PRIOR APPLICATION NUMBER: 60/180,628
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: 60/231,968
; PRIOR FILING DATE: 2000-09-12
; NUMBER OF SEQ ID NOS: 97
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 29
; LENGTH: 3076
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (3064)
; OTHER INFORMATION: n equals a,t,g, or c
US-10-277-802-29

Query Match 100.0%; Score 1317; DB 15; Length 3076;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1317; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ATGTACATAGATGATTTTACCAATATGGGTATTTGGTGAGGCTGATGAAATGGAGAA 60
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[illegible]

### RESULT 3

RESULTS 3  
US-09-814-353-21837

US-09-814-333-21837  
: Sequence 21837. Application US/098143353

Sequence 21837, APPLICATION US7  
Publication No. US20030165831A1

; PUBLICATION NO. 0320  
; GENERAL INFORMATION:

APPLICANT: Lee, John

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; APPLICANT: Thompson, Pamela
; APPLICANT: Lillie, James
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR
; TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND
; TITLE OF INVENTION: THERAPY OF OVARIAN CANCER
; FILE REFERENCE: MRI-006B
; CURRENT APPLICATION NUMBER: US/09/814,353
; CURRENT FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: US 60/191,031
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: US 60/207,124
; PRIOR FILING DATE: 2000-05-25
; PRIOR APPLICATION NUMBER: US 60/211,940
; PRIOR FILING DATE: 2000-06-15
; PRIOR APPLICATION NUMBER: US 60/216,820
; PRIOR FILING DATE: 2000-07-07
; PRIOR APPLICATION NUMBER: US 60/220,661
; PRIOR FILING DATE: 2000-07-25
; PRIOR APPLICATION NUMBER: US 60/257,672
; PRIOR FILING DATE: 2000-12-21
; NUMBER OF SEQ ID NOS: 22037
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 21837
; LENGTH: 3508
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 1, 2, 3506, 3507, 3508
; OTHER INFORMATION: n = A,T,C or G
US-09-814-353-21837

Query Match 100.0%; Score 1317; DB 10; Length 3508;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1317; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 530 GATGTTTAATCTACTAGTCAAGAAAGGTGAAACTGGTTCCAAATACTAAAATCCAGATG 589

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Db 590 TCATATTCAGTAAATCGAAAAAGTCAGATGTGAAATTTGAGATCGAATTTGACAAATAT 649

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Db 650 CTTGATCCGTCCTTTTTTCAACATCGAATTCATTTGGTTTTTCAATTTTCAACTCCTTCATG 709

Qy 301 ATGGTGATCTTCTTGTCGGCTTAGTTTCAATGATTTTAAATGAGAACATTAAAGAAAGAT 360
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Qy 361 TATGCTCGGTACAGTAAAGAGAAAGAAATGGATGATATGATAGAGACCTAGAGATGAA 420
Db 770 TATGCTCGGTACAGTAAAGAGAAAGAAATGGATGATATGATAGAGACCTAGAGATGAA 829

Qy 421 TATGGATGAAACAGGTGCATCGAGATGTATTTAGACCATCAAGTCACCCACTGATATTT 480
Db 830 TATGGATGAAACAGGTGCATCGAGATGTATTTAGACCATCAAGTCACCCACTGATATTT 889

Qy 481 TCCTCTCTGATTTGGTCTTCGAGTGTGAGATTTTGTGTCGTCTCTCATCGTTATTATTGTT 540
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Qy 541 GCAATGATAGAGATTTATATACTAGAGAGGGATCAATGCTCAGTACACCCATATTTGTC 600

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Db 1010 TATGCTGCTAGCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGTACACAAGGA 1069
QY 661 GGAAGGAGATGATTAAGAGAGATTTTATTTGGGGCATTCCTATCCAGCATTTGGTGT 720
Db 1070 GGAAGGAGATGATTAAGAGAGATTTTATTTGGGGCATTCCTATCCAGCATTTGGTGT 1129
QY 721 GGCACTGCTCTTCATCAATTTCAATAGCCATTTATTTACCATGCTTCAAGAGCAATTCCT 780
Db 1130 GGCACTGCTCTTCATCAATTTCAATAGCCATTTATTTACCATGCTTCAAGAGCAATTCCT 1189
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Db 1190 TTTGGAAACAATGGTGGCGGTTTGTGTCATCTGTTTTTTTGTATTTCTTCTCTAAATCTT 1249
QY 841 GTTGGTACAAATCTTGGCGGAAATCTGTACAGTCAAGCCCAACTTTTCTTGTGTCAAT 900
Db 1250 GTTGGTACAAATCTTGGCGGAAATCTGTACAGTCAAGCCCAACTTTTCTTGTGTCAAT 1309
QY 901 GCTGTGCTGCTCTATACCGGAGAAAAATGTTTCATGAGGCTGCGGTTATTGTTTC 960
Db 1310 GCTGTGCTGCTCTATACCGGAGAAAAATGTTTCATGAGGCTGCGGTTATTGTTTC 1369
QY 961 CTGGGTGAATTTACCTTTTGGTTCAATCTTATTTGAAATGATTTTCATCTTCAGCTCT 1020
Db 1370 CTGGGTGAATTTACCTTTTGGTTCAATCTTATTTGAAATGATTTTCATCTTCAGCTCT 1429
QY 1021 TTCTGGGCATATAAGATCTATTATGTTCTATGGCTTCAATGATGCTGGTGTATTCCTG 1080
Db 1430 TTCTGGGCATATAAGATCTATTATGTTCTATGGCTTCAATGATGCTGGTGTATTCCTG 1489
QY 1081 TGCATGTGATGCTGTGTGATCTATTGTGTGCAATATTTTCTATCAATGAGAAGAT 1140
Db 1490 TGCATGTGATGCTGTGTGATCTATTGTGTGCAATATTTTCTATCAATGAGAAGAT 1549
QY 1141 TACCGTGGCAATGAGCAAGTTTCTCTCTGTCATCAATGCAATCTATGTTTACATG 1200
Db 1550 TACCGTGGCAATGAGCAAGTTTCTCTCTGTCATCAATGCAATCTATGTTTACATG 1509
QY 1201 TATTCTCTTTTACTACTATTTTTCACAAACAAAGATGATGGCTTATTTCAAAACATCTT 1260
Db 1610 TATTCTCTTTTACTACTATTTTTCACAAACAAAGATGATGGCTTATTTCAAAACATCTT 1669
QY 1261 TACTTTGGATATAGGGGATTTTATGACACAGCTTGGGGATATGTTGGAGCGATT 1317
Db 1670 TACTTTGGATATAGGGGATTTTATGACACAGCTTGGGGATATGTTGGAGCGATT 1726

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RESULT 4
US-10-198-846-10005
; Sequence 10005, Application US/10198846
; Publication No. US2003009974A1
; GENERAL INFORMATION:
; APPLICANT: Lillie, James
; APPLICANT: Xu, Yongyao
; APPLICANT: Wang, Youzhen
; APPLICANT: Steinmann, Kathleen
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS
; TITLE OF INVENTION: FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND
; TITLE OF INVENTION: THERAPY OF BREAST CANCER
; FILE REFERENCE: MRI-049
; CURRENT APPLICATION NUMBER: US/10/198.846
; CURRENT FILING DATE: 2002-07-18
; PRIOR APPLICATION NUMBER: 60/306,220
; PRIOR FILING DATE: 2001-07-18
; NUMBER OF SEQ ID NOS: 14084
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 10005
; LENGTH: 4024

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; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 1, 2, 4021, 4022, 4023, 4024
; OTHER INFORMATION: n = A,T,C or G
US-10-198-846-10005

Query Match 100.0%; Score 1317; DB 14; Length 4024;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1317; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGTACATAGATGATTTACCAATATGGGGTATTGTTGGTGGAGCTGATGAAAAATGGAGAA 60
Db 410 ATGTACATAGATGATTTACCAATATGGGGTATTGTTGGTGGAGCTGATGAAAAATGGAGAA 469
QY 61 GATTACTATCTTTGGACCTATFAAAAACTTGAATAGTTTTATGGAATCGAATTTGTT 120
Db 470 GATTACTATCTTTGGACCTATFAAAAACTTGAATAGTTTTATGGAATCGAATTTGTT 529
QY 121 GATGTTAATCTAACTAGTGAAGGAAAGGTGAAACTGGTTCCAAATACTTAAATCCAGATG 180
Db 530 GATGTTAATCTAACTAGTGAAGGAAAGGTGAAACTGGTTCCAAATACTTAAATCCAGATG 589
QY 181 TCATATTCAATGAAAAATGAAAAAGTCAAGATGTGAAAAATTTGAAGATCGATTGACAAATAT 240
Db 590 TCATATTCAATGAAAAATGAAAAAGTCAAGATGTGAAAAATTTGAAGATCGATTGACAAATAT 649
QY 241 CTGATCGCTGCTTTTTCACATCGGATTCATTTGGTTTCAATTTTCAATCTCTTTCATG 300
Db 650 CTGATCGCTGCTTTTTCACATCGGATTCATTTGGTTTCAATTTTCAATCTCTTTCATG 709
QY 301 ATGTTGATCTTTCTGGTGGGCTTAGTTTCAATGATTTTAAATGAGAACTTAAAGAAAAGAT 360
Db 710 ATGTTGATCTTTCTGGTGGGCTTAGTTTCAATGATTTTAAATGAGAACTTAAAGAAAAGAT 769
QY 361 TATGCTCGTACAGTAAAGAGAGAAATGATGATGATGATGATGATGATGATGATGATGATGAT 420
Db 770 TATGCTCGTACAGTAAAGAGAGAAATGATGATGATGATGATGATGATGATGATGATGATGAT 829
QY 421 TATGATGGAACACAGTGCATGGAGATGATTTTACACCATCAAGTCAACCTCCTCATATTT 480
Db 830 TATGATGGAACACAGTGCATGGAGATGATTTTACACCATCAAGTCAACCTCCTCATATTT 889
QY 481 TCCCTCTGATGTTGTTTGGATGTCAGATATTTGCTGTGCTCTCATGTTTATTTGTT 540
Db 890 TCCCTCTGATGTTGTTTGGATGTCAGATATTTGCTGTGCTCTCATGTTTATTTGTT 949
QY 541 GCAATGATAGAGATTTTATATCTAGAGGGGATCAATGCTCAGTACAGCCATATTTGTC 600
Db 950 GCAATGATAGAGATTTTATATCTAGAGGGGATCAATGCTCAGTACAGCCATATTTGTC 1009
QY 601 TATGCTGCTACGTCCTCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGTAGACAAGGA 660
Db 1010 TATGCTGCTACGTCCTCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGTAGACAAGGA 1069
QY 661 GGAAGGAGATGATTAAGAGAGATTTTATTTGGGGCATTCCTATCCAGCTATGTTGT 720
Db 1070 GGAAGGAGATGATTAAGAGAGATTTTATTTGGGGCATTCCTATCCAGCTATGTTGT 1129
QY 721 GGCACTGCTCTTCTCATCAATTTTCATAGCCATTTTATTTACCATGCTTCAAGAGCAATTCCT 780
Db 1130 GGCACTGCTCTTCTCATCAATTTTCATAGCCATTTTATTTACCATGCTTCAAGAGCAATTCCT 1189
QY 781 TTTGGAAACAATGGTGGCGGTTTGTGTCATCTGTTTTTTTGTATTTCTTCTCTAAATCTT 840
Db 1190 TTTGGAAACAATGGTGGCGGTTTGTGTCATCTGTTTTTTTGTATTTCTTCTCTAAATCTT 1249
QY 841 GTTGGTACAAATCTTGGCGGAAATCTGTACAGTCAAGCCCAACTTTTCTTGTGTCAAT 900
Db 1250 GTTGGTACAAATCTTGGCGGAAATCTGTACAGTCAAGCCCAACTTTTCTTGTGTCAAT 1309
QY 901 GCTGTGCTGCTCTATACCGGAGAAAAATGTTTCATGAGGCTGCGGTTATTGTTTC 960

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Db 1310 GCTGTGCTCGTCTATACCGGAGAAAAATGGTTCTAAGAGCTGCGGTTATGTTGC 1369
Qy 961 CTGGGTGGAATTTACCTTTTGGTTCAAATCTTTATTGAAATGATTTTCACGTCT 1020
Db 1370 CTGGGTGGAATTTACCTTTTGGTTCAAATCTTTATTGAAATGATTTTCACGTCT 1429
Qy 1021 TTCTGGGCATATAGATCTATTATGCTATGCTATGCTTCATGATGCTGGTTCATCCG 1080
Db 1430 TTCTGGGCATATAGATCTATTATGCTATGCTTCATGATGCTGGTTCATCCG 1489
Qy 1081 TGCATTGTGACTGTCTGTGACTATTGTGTGCACATATTTTCTACTAAATGAGAAGAT 1140
Db 1490 TGCATTGTGACTGTCTGTGACTATTGTGTGCACATATTTTCTACTAAATGAGAAGAT 1549
Qy 1141 TACCGTGGCAATGGACAAAGTTTCTCTCTGCTGCATCACTGCAATCTATGTTTACATG 1200
Db 1550 TACCGTGGCAATGGACAAAGTTTCTCTCTGCTGCATCACTGCAATCTATGTTTACATG 1609
Qy 1201 TATTCCTTTTACTACTATTTTTCAAAACAAAGATGTATGGCTTATTTCAAACATCATTT 1260
Db 1610 TATTCCTTTTACTACTATTTTTCAAAACAAAGATGTATGGCTTATTTCAAACATCATTT 1669
Qy 1261 TACTTTGGATATATGGCGGTATTTAGCACAGCCTTGGGATAATGTGTGGAGCATTT 1317
Db 1670 TACTTTGGATATATGGCGGTATTTAGCACAGCCTTGGGATAATGTGTGGAGCATTT 1726
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RESULT 5

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US-09-374-046A-25
; Sequence 25, Application US/09374046A
; Publication No. US20030096951A1
; GENERAL INFORMATION:
; APPLICANT: Jacobs, Kenneth
; APPLICANT: McCoy, John M.
; APPLICANT: Lavalie, Edward R.
; APPLICANT: Collins-Racie, Lisa A.
; APPLICANT: Evans, Cheryl
; APPLICANT: Merberg, David
; APPLICANT: Treacy, Maurice
; APPLICANT: Agostino, Michael J.
; APPLICANT: Steininger II, Robert J.
; APPLICANT: Spaulding, Vikki
; APPLICANT: Wong, Gordon G.
; APPLICANT: Clark, Hilary
; APPLICANT: Fecthel, Kim
; APPLICANT: Genetics Institute, Inc.
; TITLE OF INVENTION: SECRETED PROTEINS AND POLYNUCLEOTIDES ENCODING THEM
; FILE REFERENCE: GI 6075-83A
; CURRENT APPLICATION NUMBER: US/09/374,046A
; CURRENT FILING DATE: 1999-08-13
; NUMBER OF SEQ ID NOS: 240
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 25
; LENGTH: 3370
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-374-046A-25
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Query Match 99.9%; Score 1315.4; DB 10; Length 3370;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1316; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 ATGTACATAGATGATTTACCAATATGGGGTATTTGGTGGAGCTGATGAAAAATGGAGAA 60
Db 353 ATGTACATAGATGATTTACCAATATGGGGTATTTGGTGGAGCTGATGAAAAATGGAGAA 412
Qy 61 GATTACTATCTTTGGACCTATAAAACCTTGAATAGGTTTTTAATGGAATCGAATGTT 120
Db 413 GATTACTATCTTTGGACCTATAAAACCTTGAATAGGTTTTTAATGGAATCGAATGTT 472
Qy 121 GATGTTAATCTAAGTGTAGGAGGAAAGGTGAAACTGGTCCAAATACTAAAAATCCAGATG 180
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Db 473 GATGTTAATCTAAGTGTAGGAGGAAAGGTGAACTGGTTCCAAATACTAAAAATCCAGATG 532
Qy 181 TCATATTCAGTAAAAATGAAAAAGTCAGATGTGAAATTTGAGATCGATTTTGACAAATAT 240
Db 533 TCATATTCAGTAAAAATGAAAAAGTCAGATGTGAAATTTGAGATCGATTTTGACAAATAT 592
Qy 241 CTTGATCCGTCCCTTTTCAACATCCGATTCATTGGTTTTTCAATTTTCAACTCCCTTCATG 300
Db 593 CTTGATCCGTCCCTTTTCAACATCCGATTCATTGGTTTTTCAATTTTCAACTCCCTTCATG 652
Qy 301 ATGGTGATCTTTCTTGGTGGCTTAGTTTCAATGATTTTAAATGAGAAACATTAAGAAAAAGAT 360
Db 653 ATGGTGATCTTTCTTGGTGGCTTAGTTTCAATGATTTTAAATGAGAAACATTAAGAAAAAGAT 712
Qy 361 TATGCTCCGTACAGTAAAGAGGAGAAATGATATGGATAGAGACCTAGGAGATGAA 420
Db 713 TATGCTCCGTACAGTAAAGAGGAGAAATGATATGGATAGAGACCTAGGAGATGAA 772
Qy 421 TATGGATGAAACAGGTGCATGGAGATGATTTTAGACCATCAAGTCAACCCTACTGATATTT 480
Db 773 TATGGATGAAACAGGTGCATGGAGATGATTTTAGACCATCAAGTCAACCCTACTGATATTT 832
Qy 481 TCCTCTCTGATTTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCATCGTTATTATTGTT 540
Db 833 TCCTCTCTGATTTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCATCGTTATTATTGTT 892
Qy 541 GCAATGATAGAGATTTATATACTGAGAGGGGATCAATGCTCAGTACAGCCATATTTCTC 600
Db 893 GCAATGATAGAGATTTATATACTGAGAGGGGATCAATGCTCAGTACAGCCATATTTCTC 952
Qy 601 TATGCTGCTACGTCTCCAGTGAATGGTTTATTTGGAGGAAGTCTGTATGCTAGACAAGAA 660
Db 953 TATGCTGCTACGTCTCCAGTGAATGGTTTATTTGGAGGAAGTCTGTATGCTAGACAAGAA 1012
Qy 661 GGAAGGAGATGGATAAAGCAGATGTTTATTTGGGGCAATTCCTTATCCAGCTATGGTGTG 720
Db 1013 GGAAGGAGATGGATAAAGCAGATGTTTATTTGGGGCAATTCCTTATCCAGCTATGGTGTG 1072
Qy 721 GGCACCTGCTCTTCTCATCAATTTTCATAGCCATTTTATACCATGTTTCAAGAGCCATTCCT 780
Db 1073 GGCACCTGCTCTTCTCATCAATTTTCATAGCCATTTTATACCATGTTTCAAGAGCCATTCCT 1132
Qy 781 TTGGAACAATGGTGGCGGCTTTGTTGCACTGTGTTTTTTTGTATATCTTCTCTCTAAATCT 840
Db 1133 TTGGAACAATGGTGGCGGCTTTGTTGCACTGTGTTTTTTTGTATATCTTCTCTCTAAATCT 1192
Qy 841 GTTGTGTACATACTTTGGCCGAAATCTGTCAGGTGAGCCCACTTCTCTGTGCTGTCAT 900
Db 1193 GTTGTGTACATACTTTGGCCGAAATCTGTCAGGTGAGCCCACTTCTCTGTGCTGTCAT 1252
Qy 901 GCTGTGCTCGTCTCTATACCGGAGAAAAATGGTTTCATGGAGCCTGCGGTTATTGTTTGC 960
Db 1253 GCTGTGCTCGTCTCTATACCGGAGAAAAATGGTTTCATGGAGCCTGCGGTTATTGTTTGC 1312
Qy 961 CTGGGTGGAATTTTACCTTTTGGTTGATCTTTTATGGAATGATTTTCATCTTCCAGCTCT 1020
Db 1313 CTGGGTGGAATTTTACCTTTTGGTTGATCTTTTATGGAATGATTTTCATCTTCCAGCTCT 1372
Qy 1021 TTCTGGGCATATAGATCTATTATGCTATGCTTCATGCTGCTGCTGCTGCTGCTGCTGCTG 1080
Db 1373 TTCTGGGCATATAGATCTATTATGCTATGCTTCATGATGCTGCTGCTGCTGCTGCTGCTG 1432
Qy 1081 TGCATTGTGACTGTCTGTGACTATTGTGTGACATATTTTCTACTAAATGCGAGAAGAT 1140
Db 1433 TGCATTGTGACTGTCTGTGACTATTGTGTGACATATTTTCTACTAAATGCGAGAAGAT 1492
Qy 1141 TACCGTGGCAATGGACAAAGTTTCTCTCTGCTGCATCACTGCAATCTATGTTTACATG 1200
Db 1493 TACCGTGGCAATGGACAAAGTTTCTCTCTGCTGCATCACTGCAATCTATGTTTACATG 1552
Qy 1201 TATTCCTTTTACTACTATTTTTCAAAACAAAGATGTATGGCTTATTTCAAACATCATTT 1260
Db 1553 TATTCCTTTTACTACTATTTTTCAAAACAAAGATGTATGGCTTATTTCAAACATCATTT 1612
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QY 1261 TACTTTGGATATATGGCGGATTTAGCACAGCCCTTGGGGATATATGTTGGAGCGATT 1317  
 Db 1613 TACTTTGGATATATGGCGGATTTAGCACAGCCCTTGGGGATATATGTTGGAGCGATT 1669

RESULT 6

US-10-616-263-25  
 ; Sequence 25, Application US/10616263  
 ; Publication No. US20040038276A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Jacobs, Kenneth  
 ; APPLICANT: McCoy, John M.  
 ; APPLICANT: LaVallie, Edward R.  
 ; APPLICANT: Collins-Racie, Lisa A.  
 ; APPLICANT: Evans, Cheryl  
 ; APPLICANT: Werberg, David  
 ; APPLICANT: Treacy, Maurice  
 ; APPLICANT: Agostino, Michael J.  
 ; APPLICANT: Steininger II, Robert J.  
 ; APPLICANT: Spaulding, Vikki  
 ; APPLICANT: Wong, Gordon G.  
 ; APPLICANT: Clark, Hilary  
 ; APPLICANT: Fecthel, Kim  
 ; APPLICANT: Genetics Institute, Inc.  
 ; TITLE OF INVENTION: SECRETED PROTEINS AND POLYNUCLEOTIDES ENCODING THEM  
 ; FILE REFERENCE: 00766.000103.5  
 ; CURRENT APPLICATION NUMBER: US/616,263  
 ; CURRENT FILING DATE: 2003-07-08  
 ; NUMBER OF SEQ ID NOS: 240  
 ; SOFTWARE: PatentIn Ver. 2.0  
 ; SEQ ID NO 25  
 ; LENGTH: 3370  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 US-10-616-263-25

Query Match 99.9%; Score 1315.4; DB 16; Length 3370;  
 Best Local Similarity 99.9%; Pred. No. 0;  
 Matches 1316; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 ATGTACATAGATGATTTACCAATATGGGGTATTTGGTGGAGCTGATGAAATGGAGAA 60  
 Db 353 ATGTACATAGATGATTTACCAATATGGGGTATTTGGTGGAGCTGATGAAATGGAGAA 412  
 QY 61 GATTACTATCTTTGGACCTATAAATACTTGAATAGGTTTAAATGGAATCGAATGTT 120  
 Db 413 GATTACTATCTTTGGACCTATAAATACTTGAATAGGTTTAAATGGAATCGAATGTT 472  
 QY 121 GATGTTAATCTAATAGTGAAGGAAAGTGAAGCTGGTTCCAAATCTTAAATCCAGATG 180  
 Db 473 GATGTTAATCTAATAGTGAAGGAAAGTGAAGCTGGTTCCAAATCTTAAATCCAGATG 532  
 QY 181 TCATATTCAGTAAATGGAATAAGTCAAGATGTGAAATTTGAAGATCGATTGCAAAATAT 240  
 Db 533 TCATATTCAGTAAATGGAATAAGTCAAGATGTGAAATTTGAAGATCGATTGCAAAATAT 592  
 QY 241 CTTGATCCGCTCTTTTCAACATCGGATTCATTTGTTTCAATTTTCAACTCCTTCATG 300  
 Db 593 CTTGATCCGCTCTTTTCAACATCGGATTCATTTGTTTCAATTTTCAACTCCTTCATG 652  
 QY 301 ATGTGATCTTCTTTGGTGGGCTTATTTCAATGATTTTAAATGAGAAATTAAGAAAGAT 360  
 Db 653 ATGTGATCTTCTTTGGTGGGCTTATTTCAATGATTTTAAATGAGAAATTAAGAAAGAT 712  
 QY 361 TATGCTCGGTACAGTAAAGAGGAAATCGATGATTTGGATGAGACCTAGAGATGAA 420  
 Db 713 TATGCTCGGTACAGTAAAGAGGAAATCGATGATTTGGATGAGACCTAGAGATGAA 772  
 QY 421 TATGGATGAAACAGGTGCATGGAGATGATTTAGACCATCAAGTCAACCTGATATTT 480  
 Db 773 TATGGATGAAACAGGTGCATGGAGATGATTTAGACCATCAAGTCAACCTGATATTT 832

QY 481 TCCTCTCTGATTTGGTCTTGGATGTCAGATATTTCTGTGTCCTCTCATGCTTATTTGTT 540  
 Db 833 TCCTCTCTGATTTGGTCTTGGATGTCAGATATTTCTGTGTCCTCTCATGCTTATTTGTT 892  
 QY 541 GCAATGATAGAGATTTATATATCTACTAGAGGGGATCAATGCTCAGTACAGCCATATTTGTC 600  
 Db 893 GCAATGATAGAGATTTATATATCTACTAGAGGGGATCAATGCTCAGTACAGCCATATTTGTC 952  
 QY 601 TATGCTGCTACCTCTCCAGTCAATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGGA 660  
 Db 953 TATGCTGCTACCTCTCCAGTCAATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGGA 1012  
 QY 661 GGAAGGATGATGATTAACAGATGTTTATTTGGGCAATCCTTATCCAGCTATGGTGTG 720  
 Db 1013 GGAAGGATGATGATTAACAGATGTTTATTTGGGCAATCCTTATCCAGCTATGGTGTG 1072  
 QY 721 GGCAGTGCCTCTTCTCATCAATTTTATGATCCATTTATTTACCATGCTTCAAGAGCCATTCCT 780  
 Db 1073 GGCAGTGCCTCTTCTCATCAATTTTATGATCCATTTATTTACCATGCTTCAAGAGCCATTCCT 1132  
 QY 781 TTTGGAACAATGGTGGCGGTTTGTGCAATCTGTTTTTTTGTATTTCTTCTCTAAATCTT 840  
 Db 1133 TTTGGAACAATGGTGGCGGTTTGTGCAATCTGTTTTTTTGTATTTCTTCTCTAAATCTT 1192  
 QY 841 GTTGTGATCAATTTTACCTTTTGGTTCAGTCTGAGCCCAACTTTCTTGTGCTGTCAT 900  
 Db 1193 GTTGTGATCAATTTTACCTTTTGGTTCAGTCTGAGCCCAACTTTCTTGTGCTGTCAT 1252  
 QY 901 GCTGTGCTCTCTCTATACCGGAGAAAAATGGTTCATGAGAGCTGGGTTATTTGTTGC 960  
 Db 1253 GCTGTGCTCTCTCTATACCGGAGAAAAATGGTTCATGAGAGCTGGGTTATTTGTTGC 1312  
 QY 961 CTGGGTGGAATTTTACCTTTTGGTTCATCTTATTTGAATGATTTTCACTCTTCCAGCTCT 1020  
 Db 1313 CTGGGTGGAATTTTACCTTTTGGTTCATCTTATTTGAATGATTTTCACTCTTCCAGCTCT 1372  
 QY 1021 TTCTGGGATATAGATCTATTTATGCTATGGCTTCATGATGCTGGTCTGTTTATCCTG 1080  
 Db 1373 TTCTGGGATATAGATCTATTTATGCTATGGCTTCATGATGCTGGTCTGTTTATCCTG 1432  
 QY 1081 TGCATTTGACTGTCTGTGACTATTTGTGTCATATTTTCTACTAAATGCGAGAT 1140  
 Db 1433 TGCATTTGACTGTCTGTGACTATTTGTGTCATATTTTCTACTAAATGCGAGAT 1492  
 QY 1141 TACCGTGGCAATGACAAAGTTTCTCTCTGCTGCACTCAACTGCAATCTATGTTTACATG 1200  
 Db 1493 TACCGTGGCAATGACAAAGTTTCTCTCTGCTGCACTCAACTGCAATCTATGTTTACATG 1552  
 QY 1201 TATTCCTTTTACTACTATTTTTCAAAAAACAAGATGATGGCTTATTTTCAAAATCATTT 1260  
 Db 1553 TATTCCTTTTACTACTATTTTTCAAAAAACAAGATGATGGCTTATTTTCAAAATCATTT 1612  
 QY 1261 TACTTTGGATATATGGCGGATTTAGCACAGCCCTTGGGGAATATGTTGGAGCGATT 1317  
 Db 1613 TACTTTGGATATATGGCGGATTTAGCACAGCCCTTGGGGAATATGTTGGAGCGATT 1669

RESULT 7

US-10-205-219-122  
 ; Sequence 122, Application US/10205219  
 ; Publication No. US20030138803A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Warner-Lambert Company  
 ; APPLICANT: Lee, Kevin  
 ; APPLICANT: Dixon, Alistair  
 ; APPLICANT: Brooksbank, Robert  
 ; APPLICANT: Pinnock, Robert  
 ; TITLE OF INVENTION: Identification and Use of Molecules Implicated in Pain  
 ; FILE REFERENCE: WL-A-018200  
 ; CURRENT APPLICATION NUMBER: US/10/205,219  
 ; CURRENT FILING DATE: 2002-07-24  
 ; PRIOR APPLICATION NUMBER: GB 01-8354.0  
 ; PRIOR FILING DATE: 2001-07-27

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; NUMBER OF SEQ ID NOS: 197
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 122
; LENGTH: 3389
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: EP70-P-iso
US-10-205-219-122

Query Match          93.1%; Score 1226; DB 15; Length 3389;
Best Local Similarity 98.6%; Pred. No. 4.2e-293;
Matches 1300; Conservative 0; Mismatches 10; Indels 8; Gaps 6;

Qy 1 ATGTACATAGATGATTACCAATATGGGGTATTGGTGAGGCTGATGAAATGGAGAA 60
Db 410 ATGTACATAGATGATTACCAATATGGGGTATTGGTGAGGCTGATGAAATGGAGAA 469
Qy 61 GATTACTATCTTTGGACCTATAAAAACTTGAATAGGTTTTAATGGAATCGAATTGTT 120
Db 470 GATTACTATCTTTGGACCTATAAAAACTTGAATAGGTTTTAATGGAATCGAATTGTT 529
Qy 121 GATGTTAATCTAACTAGTGAAGAAAGGTGAAACT-GGTTCCAAATCTAAATCCAGAT 179
Db 530 GATGTTAATCTAACTAGTGAAGAAAGGTGAAACTGGGTTCCAAATCTAAATCCAGAT 589
Qy 180 GTCATATTTCAGTAAATGGAAGAAAGTCAGATGTGAATTTGAAGATCGATTTCGACAAATA 239
Db 590 GTCATATTTCAGTAAATGSG-AAAAGTCAGATGTGAATTTGAAGATCGATTTCGAC-AAATA 647
Qy 240 TCTTGATCCGTCCTTTTTTCAACATCGGATTCATTGGTTTTCAATTTTCAACTCCTTCAT 299
Db 648 TCITGATC--GTCCCTTTTTTCACTCGGATTCATTGGTTTTCAATTTTCAACTCCTTCAT 705
Qy 300 GATGGTGATCTCTTGGTGGCTTAGTTTCAATGATTTTAAATGAGAACATTAAAGAAAGA 359
Db 706 GATGGTGATCTCTTGGTGGCTTAGTTTCAATGATTTTAAATGAGAACATTAAAGAAAGA 765
Qy 360 TTATGCTCGGTACAGTAAAGAGAAAGATGGATGATGATGATGAGAGACCTAGAGATGA 419
Db 766 TTATGCTCGGTACAGTAAAGAGAAAGATGGATGATGATGATGAGAGACCTAGAGATGA 825
Qy 420 ATATGGATGAAACAGGTGATGAGATGATTTAGACCAATCAAGTCAOCCATGTATTT 479
Db 826 ATATGGATGAAACAGGTGATGAGATGATTTAGACCAATCAAGTCAOCCATGTATTT 885
Qy 480 TTCTCTCTGATTTGGTCTCGATGTCAGATTTTGTGTCCTCTCATCGTTATTATTGT 539
Db 886 TTCTCTCTGATTTGGTCTCGATGTCAGATTTTGTGTCCTCTCATCGTTATTATTGT 945
Qy 540 TGCAATGATAGAAATTTATATCTGAGAGGGATCAATGCTCAGTACAGCCATATTGT 599
Db 946 TGCAATGATAGAAATTTATATCTGAGAGGGATCAATGCTCAGTACAGCCATATTGT 1005
Qy 600 CTATGCTGCTACGTCCTCAGTAAATGTTATTTTGGAGGAAGTCTGTATGCTAGACAGG 659
Db 1006 CTATGCTGCTACGTCCTCAGTAAATGTTATTTTGGAGGAAGTCTGTATGCTAGACAGG 1065
Qy 660 AGGAAGAGATGGATAAAGCAGATGTTTATTTGGGGCAATTCCTTATCCAGCTATGGTGTG 719
Db 1066 AGGAAGAGATGGATAAAGCAGATGTTTATTTGGGGCAATTCCTTATCCAGCTATG--GGT 1123
Qy 720 TGGCACTGCCCTCTTCATCAATTTTATAGCCATTTATACCAATGTTTCAAGAGCCATTC 779
Db 1124 GTGCACCTGCCCTCTTCATCAATTTTATAGCCATTTATACCAATGTTTCAAGAGCCATTC 1183
Qy 780 TTTTGGAAACATAGTGGCCGCTTTGTCATCTGTTTTTTTGTATTCTCTCTCAATCT 839
Db 1184 TTTTGGAAACATAGTGGCCGCTTTGTCATCTGTTTTTTTGTATTCTCTCTCAATCT 1243
Qy 840 TGTTGGTACAACTCTGGCCGAAATCTGTGAGGTTCAGCCCAACTTTCTCTTGTGCTGTCAA 899
Db 1244 TGTTGGTACAACTCTGGCCGAAATCTGTGAGGTTCAGCCCAACTTTCTCTTGTGCTGTCAA 1303
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Qy 900 TGCTGTGCTCGTCTCTATACCGGAGAAAAAATGGTTTATGAGAGCTGCGGTTATTGTTTG 959
Db 1304 TGCTGTGCTCGTCTCTATACCGGAGAAAAAATGGTTTATGAGAG-CTGCGGTTATTGTTTG 1362
Qy 960 CCTGGGTGGAATTTTACCTTTTGGTTCAATCTTTTATTGAAATGATTTTCACTTTCACGTC 1019
Db 1363 CCTGGGTGGAATTTTACCTTTTGGTTCAATCTTTTATTGAAATGATTTTCACTTTCACGTC 1422
Qy 1020 TTTCTGGGCATATAAGATCTATTATGCTATGGCTTCAATGATGCTGCTGGTGTATCCT 1079
Db 1423 TTTCTGGGCATATAAGATCTATTATGCTATGGCTTCAATGATGCTGCTGGTGTATCCT 1482
Qy 1080 GTGCATTTGTGACTGCTGTGACATTTTGTGACATATTTTCTACTAAATGCGAGAGA 1139
Db 1483 GTGCATTTGTGACTGCTGTGACATTTTGTGACATATTTTCTACTAAATGCGAGAGA 1542
Qy 1140 TTACCGGTGGCAATGGCAAAAGTTTCTCTGCTGCTCACTCAACTGCAATCTATGTTTACAT 1199
Db 1543 TTACCGGTGGCAATGGCAAAAGTTTCTCTGCTGCTCACTCAACTGCAATCTATGTTTACAT 1602
Qy 1200 GTATTCCTTTTACTACTATTTTTCAAAACAAAGATGTATGGCTTATTTCAAACATCAT 1259
Db 1603 GTATTCCTTTTACTACTATTTTTCAAAACAAAGATGTATGGCTTATTTCAAACATCAT 1662
Qy 1260 TTACTTTTGGATATATGGCGGTATTATTAGCACAGCCCTTGGGATATGTTGAGAGCGATT 1317
Db 1663 TTACTTTTGGATATATGGCGGTATTATTAGCACAGCCCTTGGGATATGTTGAGAGCGATT 1720
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RESULT 8

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US-10-062-674-1697
; Sequence 1697, Application US/10062674
; Publication No. US20040005559A1
; GENERAL INFORMATION:
; APPLICANT: Ioring, Jeanne F.; Kaser, Matthew R.
; TITLE OF INVENTION: MARKERS OF NEURONAL DIFFERENTIATION AND MORPHOGENESIS
; FILE REFERENCE: PA-0026-1 CIP
; CURRENT APPLICATION NUMBER: US/10/062,674
; CURRENT FILING DATE: 2002-01-30
; PRIOR APPLICATION NUMBER: US 09/525,102
; PRIOR FILING DATE: 2000-07-24
; NUMBER OF SEQ ID NOS: 2217
; SOFTWARE: PERL Program
; SEQ ID NO 1697
; LENGTH: 6197
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20040005559A1 233927.4
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)
; OTHER INFORMATION: a, t, c, g, or other
US-10-062-674-1697
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Query Match 53.9%; Score 709.6; DB 16; Length 6197;  
Best Local Similarity 82.4%; Pred. No. 6.3e-165;  
Matches 1135; Conservative 0; Mismatches 165; Indels 77; Gaps 25;

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Qy 15 TTTACCAATATGGGTTATGTTGGTGGAGCTGATGAAATG-GAGAGATTACTATCTTT 73
Db 388 TTACCCNATATGGGTTATGTTGGTGGAGCTGATGAAATGCGAGAAGATTACTATCTGT 447
Qy 74 GGACC--TATAAAACTTGAAAT--AGGTTTAAATGAAATCGAATTTGT-----TG 121
Db 448 TGGACCGTATAAAAAATCTGAAATTAGGTTTAACTGGAATCGAAGTTGTTGTTATGTT 507
Qy 122 ATGTTAACTTAACTAGTGAAGAAAGGTGAACTGGTTCGAAATCTAAATCCAGATGT 181
Db 508 ATATCTAACTACGTGAAGAGAAAGAGTGAACATGGTTCCAAATATACTAAATCCAGATGT 567
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QY 182 CATATTCAGTAAATGGAAAAGTCAG- - -TGTAATTTGAAGATCGATTTCACAAAT 238  
Db 568 CATATTCAGTAAATGGAAAAGTCAGATTGTGAAATTTGAAGATCGATTTCACAAAT 627  
QY 239 ATCTTGATCCGTC- - -TTTTTCAACATCGAATTCATTGGTTTCAA- - - - -TTTTCAACT 282  
Db 628 ATCTTGATCCGTCGCGCTTTTCAACATCGAATTCATTGGTTTCAACATGTTGTCAACTC 687  
QY 293 CTTTCATGAT- - -GTCGATCTCTTGGT- - -GGGCTTAGTTTCAATGATTTTAATGAGAACA- - 348  
Db 688 CGTTTCATGATGGGTGATCTCTTGGTGGGCTTAGTTTCAATGATTTTAATGAGAACA 747  
QY 349 -TTAAGAAAAGATATGCTCGTACAGTAAGAGGAAAGAAATGATGATGATGATGAGA 407  
Db 748 TTAAGAAAAGATATGCTCGTACAGTAAGAGGAAAGAAATGATGATGATGATGAGA 807  
QY 408 CTTAGGAGATGAATG- - -GATGGAACAGGTGCAT- - -GGAGATGATTTAGACCAT- - C 461  
Db 808 CTTAGGAGATGAATGATGATGGGAAACAGGTGCATTTGGAAGATGATTTAGACCATC 867  
QY 462 AAGTCAACCACTGATATTTCTCTCTGATTTGGTCTGGAATGTCAGATATTTGCTGTGTC 521  
Db 868 AAGTCAACCACTGATATTTCTCTCTGATTTGGTCTGGAATGTCAGATATTTGCTGTGTC 927  
QY 522 TCTCATCGTTATTATG- - -TTGCAATGATAGAAGATTTATATCTAGAGGGGATCAATGC 580  
Db 928 TCTCATCGTTAAATGTTGCAATGATAGAAGATTTAATATCTAGAGGGGATCAATGC 987  
QY 581 TCAGTACAGCCATATTTGCTCTATGC- - -TGCTACGTCT- - -CCAGTGAATGGTTATTTGGAGG 638  
Db 988 TCAGTACAGCCATATTTGCTCTAAGCTTACGTCTCCAGTGAATGGTTATTTGGAGG 1047  
QY 639 AAGTCTGTATCTAGACAGAGGAAAGAGATGATGAAGCA- - - - -GATGTTTAT 690  
Db 1048 AAGCGATACTAAAGAGGAAAGGAGATTTGGGCTATAAGCGAGAATGGTTAAATTTG 1107  
QY 691 GGGCGATTCC- - - - -TTATCCCACTATGGTGTGGCACCTGCC- - - - -TTCT 733  
Db 1108 GGGCGATTCCCTTTAAATTTCCCACTAAATTTGGGTGTTGGGCCAACTTGCCTTTCTT 1167  
QY 734 TCATCAATTTCAAGCCATTTATACCATGCTTCAAGAGCCATTCCTTTTGGAAAC- - -AATG 792  
Db 1168 TCATCAATTTCAAGCCATTTATACCATGCTTCAAGAGCCATTCCTTTTGGAAACAAATG 1227  
QY 793 GTGGCCGTTTGTCTCATCTG- - -TTTTTTGTTATTTCTTCTCTAAATCTTGTGTTGTAAT 851  
Db 1228 GTGGCCGTTTGTCTCATCTGTTTGTGTTATTTCTTCTCTAAATCTTGTGTTGTAAT 1287  
QY 852 ACTTGGCCGAAATCTGCAGTACGCCAACTTTCTTGTGCTCAATGCTGTGCTC- - 910  
Db 1288 ACTTGGCCGAAATCTGCAGTACGCCAACTTTCTTGTGCTCAATGCTGTGCTCCT 1347  
QY 911 GTCCTATACCGGAGA- - - - -AAAAATGTTCAATGAGCTGGGTATTGTTTCCCTGGGT 966  
Db 1348 GTCCTATACCGGAGAACACACAGATGTTACATGAGCTGGGTATTGTTTCCCTGGGT 1407  
QY 967 GGAATTTTACCTTTTGTGTTCAATCTTTTAAATGATTTTCACTTCAAGCTTTTCTGG 1026  
Db 1408 GGAATTTTACCTTTTGTGTTCAATCTTTTAAATGATTTTCACTTCAAGCTTTTCTGG 1467  
QY 1027 GCATATAAGATCTATTATGTTCTATGCTTCAATGATGCTGTTGTTATCTGCTGCAAT 1086  
Db 1468 GCATATAAGATCTATTATGTTCTATGCTTCAATGATGCTGTTGTTATCTGCTGCAAT 1527  
QY 1087 GTGACTGTCTGTGACTATTGTTGTCACATATTTTCTTAAATGAGAAATTAACCGG 1146  
Db 1528 GTGACTGTCTGTGACTATTGTTGTCACATATTTTCTTAAATGAGAAATTAACCGG 1587  
QY 1147 TGGCAATGGACAAGTTTTCTCTCTGCTGCAATCAATCTATGTTTACATGATATCC 1206  
Db 1588 TGGCAATGGACAAGTTTTCTCTCTGCTGCAATCAATCTATGTTTACATGATATCC 1647  
QY 1207 TTTTACTACTATTTTTT- - - - -CAAAACAAGATGATGCTGCTTATTTTCAACATCAAT 1259

Db 1648 TTTTACTACTATTTTTTTCGAAAACAAGAGATGTATGTGCTTATTTGCAACATCTATTT 1707  
QY 1260 TTACTTTGGATATATGGC- - -GGTATTTAGCACAGCCTTGGGGATAAATGTTGGAGCG 1314  
Db 1708 TACATTTGGATATATGGCGTGTATATTTAGCACAGTCCTTGGGGATATATGTGTGAG 1764

RESULT 9  
US-10-264-237-1414  
; Sequence 1414, Application US/10264237  
; Publication No. US20040009491A1  
; GENERAL INFORMATION:  
; APPLICANT: Birse et al.  
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
; FILE REFERENCE: PA31PI  
; CURRENT APPLICATION NUMBER: US/10/264,237  
; CURRENT FILING DATE: 2002-10-04  
; PRIOR APPLICATION NUMBER: PCT/US01/16450  
; PRIOR FILING DATE: 2001-05-18  
; PRIOR APPLICATION NUMBER: US 60/205,515  
; PRIOR FILING DATE: 2000-05-19  
; NUMBER OF SEQ ID NOS: 2876  
; SOFTWARE: PatentIn Ver. 3.1  
; SEQ ID NO 1414  
; LENGTH: 1070  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: (34)..(34)  
; OTHER INFORMATION: n equals a,t,g, or c  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: (40)..(40)  
; OTHER INFORMATION: n equals a,t,g, or c  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: (525)..(525)  
; OTHER INFORMATION: n equals a,t,g, or c  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: (529)..(529)  
; OTHER INFORMATION: n equals a,t,g, or c  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: (557)..(557)  
; OTHER INFORMATION: n equals a,t,g, or c  
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; NAME/KEY: misc\_feature  
; LOCATION: (837)..(837)  
; OTHER INFORMATION: n equals a,t,g, or c  
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; NAME/KEY: misc\_feature  
; LOCATION: (912)..(912)  
; OTHER INFORMATION: n equals a,t,g, or c  
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; NAME/KEY: misc\_feature  
; LOCATION: (956)..(956)  
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; NAME/KEY: misc\_feature  
; LOCATION: (965)..(966)  
; OTHER INFORMATION: n equals a,t,g, or c  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: (1025)..(1025)  
; OTHER INFORMATION: n equals a,t,g, or c  
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; NAME/KEY: misc\_feature  
; LOCATION: (1047)..(1047)  
; OTHER INFORMATION: n equals a,t,g, or c  
US-10-264-237-1414









Db 1337 TAAAGACTATCTCGCCCTATCCCTGAGAGAAATGTAACCTCAGCCCTCTGTCAATG 1396  
Qy 956 TTTGCCGTGGTGAATTTTACCTTTTGGTTCATCTTTTAFTGAAATGTATTTCACTTCA 1015  
Db 1397 CCCTCATGGGAGACTGCTTCCCTTTTGGTAGCATCTTCATTGAGATGTACTTTGTCTTCA 1456  
Qy 1016 CGTCTTTCGGGCATATAAGACTATATATGTCTATGCTTCATGATGCTGGTCTGGTTA 1075  
Db 1457 CATCATTTTGGAACTACAAGGTGTACTATATATGAGTTTCATGTTGCTAGTCTTTTGA 1516  
Qy 1076 TCCTGTGCATGTGACTGTCTGTGACTATTTTGTGACATATTTTCTACTAAATGCGAG 1135  
Db 1517 TCCTCATATTTGCACCATCTGTGTAAATCGTTGTACATATTTCCCTGCTCAATGCGG 1576  
Qy 1136 AAGATACCGGTGGCAATGACAAAGTTTCTCTGCTGATCAATCAATCGAATCTATGTTT 1195  
Db 1577 AGAACTACCACTGGCAGTGACTCATTTCTCTGCTGCTTCTACTGCGCTCATGTTT 1636  
Qy 1196 ACATGATTTCTCTTACTACTATTTTTCAAAACAAAGATGTATGCTTATTTCAACAT 1255  
Db 1637 ACCTTACTCCGTATATTTACCATGTGAAGACCAAGATGTCAGGATCTTTTCAGACAA 1696  
Qy 1256 CATTTTACTTTGGATATAGCGGTATTTTAGCACAGCTTTGGGATATATGTGTGG 1310  
Db 1697 GTTCTACTCGGTACACTCTTATGTTCTGCTAGTGTAGGAACACTCTGCGG 1751

## RESULT 13

US-09-915-582-13  
; Sequence 13, Application US/09915582  
; Patent No. US20020120103A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: 17 Human Secreted Proteins  
; FILE REFERENCE: PS723PI  
; CURRENT APPLICATION NUMBER: US/09/915,582  
; CURRENT FILING DATE: 2001-07-27  
; PRIOR APPLICATION NUMBER: PCT/US01/01431  
; PRIOR FILING DATE: 2001-01-17  
; PRIOR APPLICATION NUMBER: 60/179,065  
; PRIOR FILING DATE: 2000-01-31  
; PRIOR APPLICATION NUMBER: 60/180,628  
; PRIOR FILING DATE: 2000-02-04  
; PRIOR APPLICATION NUMBER: 60/231,968  
; PRIOR FILING DATE: 2000-09-12  
; NUMBER OF SEQ ID NOS: 97  
; SOFTWARE: Patent In Ver. 2.0  
; SEQ ID NO 13  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-915-582-13

Query Match 37.4%; Score 492.6; DB 9; Length 1867;  
Best Local Similarity 99.2%; Pred. No. 2.1e-111;  
Matches 495; Conservative 0; Mismatches 4; Indels 0; Gaps 0;  
Qy 819 TGTATTTCTTCTCTAAATCTTGTGTACAATCTTGGCCGAAATCTGTCAGGTGAGCC 878  
Db 19 TGTGCTCTTCTCTAAATCTTGTGTACAATCTTGGCCGAAATCTGTCAGGTGAGCC 78  
Qy 879 CAACCTTCTTCTGCTGTCATGTCCTTCTGTCCTTATACCGGAGAAAAATGTTTCAT 938  
Db 79 CAACCTTCTTCTGCTGTCATGTCCTTCTGTCCTTATACCGGAGAAAAATGTTTCAT 138  
Qy 939 GGAGCCTCGGTTATCTTTCCTCGGTGGAATTTTACCTTTTGGTTCATCTTTATGA 998  
Db 79 CAACCTTCTTCTGCTGTCATGTCCTTCTGTCCTTATACCGGAGAAAAATGTTTCAT 138  
Qy 939 GGAGCCTCGGTTATCTTTCCTCGGTGGAATTTTACCTTTTGGTTCATCTTTATGA 998  
Db 139 GGAGCCTCGGTTATCTTTCCTCGGTGGAATTTTACCTTTTGGTTCATCTTTATGA 198  
Qy 999 AATGTATTTCAATCTACGTTCTTCTGGGCATATAAGATCTATATGTCATGCTTCAT 1058  
Db 199 AATGTATTTCAATCTACGTTCTTCTGGGCATATAAGATCTATATGTCATGCTTCAT 258  
Qy 1059 GATGTGTGTGTGTATCTTCTGTCATGTCATGTCATGTCATGTCATGTCATGTCAT 1118  
Db 259 GATGTGTGTGTGTATCTTCTGTCATGTCATGTCATGTCATGTCATGTCATGTCAT 318

Qy 1059 GATGTGTGTGTGTATCTTCTGTCATGTCATGTCATGTCATGTCATGTCATGTCAT 1118  
Db 259 GATGTGTGTGTGTATCTTCTGTCATGTCATGTCATGTCATGTCATGTCATGTCAT 318  
Qy 1119 TTTTCTACTAAATGCAGAGATTAACCGGTGGCAATGGAACAAAGTTTCTCTCTGCTGCATC 1178  
Db 319 TTTTCTACTAAATGCAGAGATTAACAGGTGGCAATGGAACAAAGTTTCTCTCTGCTGCATC 378  
Qy 1179 AACTGCAATCTATGTTTACATGTATTCCTTTTACTACTATTTTTCAAAAAAGATGTA 1238  
Db 379 AACTGCAATCTATGTTTACATGTATTCCTTTTACTACTATTTTTCAAAAAAGATGTA 438  
Qy 1239 TGGCTTATTTCAAACATCATTTTACTTTGGATATATGCGGTATTTAGCACAGCTTGGG 1298  
Db 439 TGGCTTATTTCAAACATCATTTTACTTTGGATATATGCGGTATTTAGCACAGCTTGGG 498  
Qy 1299 GATAATGTGTGAGCGATT 1317  
Db 499 GATAATGTGTGAGCGATT 517

## RESULT 14

US-10-277-802-13  
; Sequence 13, Application US/10277802  
; Publication No. US20030190707A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: 17 Human Secreted Proteins  
; FILE REFERENCE: PS723PI  
; CURRENT APPLICATION NUMBER: US/10/277,802  
; CURRENT FILING DATE: 2002-10-23  
; PRIOR APPLICATION NUMBER: 09/915,582  
; PRIOR FILING DATE: 2001-07-27  
; PRIOR APPLICATION NUMBER: PCT/US01/01431  
; PRIOR FILING DATE: 2001-01-17  
; PRIOR APPLICATION NUMBER: 60/179,065  
; PRIOR FILING DATE: 2000-01-31  
; PRIOR APPLICATION NUMBER: 60/180,628  
; PRIOR FILING DATE: 2000-02-04  
; PRIOR APPLICATION NUMBER: 60/231,968  
; PRIOR FILING DATE: 2000-09-12  
; NUMBER OF SEQ ID NOS: 97  
; SOFTWARE: Patent In Ver. 2.0  
; SEQ ID NO 13  
; LENGTH: 1867  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-277-802-13

Query Match 37.4%; Score 492.6; DB 15; Length 1867;  
Best Local Similarity 99.2%; Pred. No. 2.1e-111;  
Matches 495; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 819 TGTATTTCTTCTCTAAATCTTGTGTACAATCTTGGCCGAAATCTGTCAGGTGAGCC 878  
Db 19 TGTGCTCTTCTCTAAATCTTGTGTACAATCTTGGCCGAAATCTGTCAGGTGAGCC 78  
Qy 879 CAACCTTCTTCTGCTGTCATGTCCTTCTGTCCTTATACCGGAGAAAAATGTTTCAT 938  
Db 79 CAACCTTCTTCTGCTGTCATGTCCTTCTGTCCTTATACCGGAGAAAAATGTTTCAT 138  
Qy 939 GGAGCCTCGGTTATGTTTTCCTCGGTGGAATTTTACCTTTTGGTTCATCTTTATGA 998  
Db 139 GGAGCCTCGGTTATGTTTTCCTCGGTGGAATTTTACCTTTTGGTTCATCTTTATGA 198  
Qy 999 AATGTATTTCAATCTACGTTCTTCTGGGCATATAAGATCTATATGTCATGCTTCAT 1058  
Db 199 AATGTATTTCAATCTACGTTCTTCTGGGCATATAAGATCTATATGTCATGCTTCAT 258  
Qy 1059 GATGTGTGTGTGTATCTTCTGTCATGTCATGTCATGTCATGTCATGTCATGTCAT 1118  
Db 259 GATGTGTGTGTGTATCTTCTGTCATGTCATGTCATGTCATGTCATGTCATGTCAT 318

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QY 1119 TTTTCTACTAAATGAGAGATTACCGGTGGCAATGGACAAAGTTTCTCTCTGCTGCATC 1178
Db 319 TTTTCTACTAAATGAGAGATTACAGGTGGCAATGGACAAAGTTTCTCTCTGCTGCATC 378
QY 1179 AACTGCAATCTATGTTTACATGTAATGCTTTTACTACTATTTTTCAAAACAAAGATGTA 1238
Db 379 AACTGCAATCTATGTTTACATGTAATGCTTTTACTACTATTTTTCAAAACAAAGATGTA 438
QY 1239 TGGCTTATTTCAAACATCAATTTTACTTTGGATATATGCGGTATTTAGCACAGCTTTGGG 1298
Db 439 TGGCTTATTTCAAACATCAATTTTACTTTGGATATATGCGGTATTTAGCACAGCTTTGGG 498
QY 1299 GATAATGTGTGGAGCGATT 1317
Db 499 GATAATGTGTGGAGCGATT 517

RESULT 15
US-10-425-114-26742
; Sequence 26742, Application US/10425114
; Publication No. US20040034889A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 26742
; LENGTH: 2039
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: LIB4573-008-E4_FLI
US-10-425-114-26742

Query Match 37, 38; Score 491.6; DB 16; Length 2039;
Best Local Similarity 61.8%; Pred. No. 4e-111;
Matches 817; Conservative 0; Mismatches 499; Indels 6; Gaps 2;

QY 2 TGTACATAGATGATTTTACCAATATGGGTATTTGTTGGTGGCTGTATGAA---AATGGAG 58
Db 352 TTTTTCATAGATGATCTGCCATTTGGGGTTTGTGGGGAGACTGCACAAAAACAATGAGA 411
QY 59 AAGATTACTACTTTTGGACCTATAAAAAATCTGAAATAGTCTTTTATGGGAATCGAATTG 118
Db 412 AAAAGCACTACTTTTACCTACACAGAACATTTGTTTAAATACAAATGGTAAACAGATAA 471
QY 119 TTGATGTTAATCTAACTAGTGAAGAAAGGTGAACTGGTTCCAAATFACTAAATCCAGA 178
Db 472 TTCAATGTAATCTAAACAGAGTCACTTAAGCTTTCTTGAAGCTGGCAAAAAGTTTGATA 531
QY 179 TGTCAATATTCAGTAAATAGGAAAGTCAAGATGTAATTTTGAAGTCGATTTTGAACAAT 238
Db 532 TGACTTATTCAGTAAAGTGGGTGCAACAAATGTGGCATTTGACCGCGCTTTTGAGGTTT 591
QY 239 ATCTTGATCCGCTCTTTTCAACATCCGATTCATTTGGTTTTCAAATTTTCAACTCCCTTCA 298
Db 592 ACTTAGACTACCGCTTTTTCACACACAGATTCATTTGGTTCTCACTTCAATTCATCA 651
QY 299 TGATGGTCACTCTTTGGTGGCTTATTTCAATGATTTTAAATGAGAACATTAAGAAAAG 358
Db 652 TGATGGTCACTCTTTGACTGGTTTGTAGTCAATGATTTTGTATGAGGACACTAAGAAATG 711
QY 359 ATTATGCTCGTA---CAGTAAAGAGCAAGAAATGGATGATATGATGATAGAGACCTAGGAG 415
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Db 712 ATTATGCAAAATATGCTCGTGAAGATGATGATCTGGAATCACTTTGAGCGAGATGTTAATG 771
QY 416 ATGAATATGGATGGAAACAGGTGCAATGCAGATGATATTTAGACCATCAAGTCAACCCACTGA 475
Db 772 AAGAAATCGGGTGGAAAGCTTGTCCATGGTATGTTCCGGCCCTCTCTGCGCAGGTGT 831
QY 476 TATTTTCCTCTCTGATGTTGTTCTGGATGTCAGATATTTTGTGTCGTCCTCAATCGTTATTA 535
Db 832 TTTCTTTCTGCCCCTAGTTGGTATTTGGCACTCAGCTGGCGGCTCTTATCCCTGTTGTGATTG 891
QY 536 TTGTTTGCATGATAGAAATTTATATCTAGAGGGGATCAATGCTCAGTACAGCCATAT 595
Db 892 TTTTGGCCATTTGTTGATGTTTATGTTTGGCGAGGGGCTATCATCAACACCTTCATG 951
QY 596 TTGCTATGCTGCTACGTCCTCAGTGAATGTTATTTTGGAGGAAGTCTGTATGCTAGAC 655
Db 952 TGTGCTACGCTCTTACATCTTCTCATCTCTGGATATGTTAGTGGTGTCTCTATTCAAGGA 1011
QY 656 AAGAGGAAGAGATGGATAAAGCAGATGTTTATTTGGGGCAATCTTATCCCACTATGG 715
Db 1012 ATGGTGGAAAAAATCGGATAAAGGCTATGATCCTTACAGCATCACTTTTCCATCTTTGT 1071
QY 716 TGTGTGGCACTGCGCTTCTTCTCATCAATTTTCAAGCAATTTATAGCATGCTTCAAGAGCA 775
Db 1072 GTTCTCGATTGGATTGTTGTTAAACATATGCTATCTCTACCGATCATTAGCAGTA 1131
QY 776 TTTCTTTTGGAAACAATGGTGGCGGTTTGTGCACTGTTTGTGTTTATTTTCTCTCTAA 835
Db 1132 TACCATTTTGGCACAATGGTTGTCTATTTTCTTTGGGCTTTTCTCTCCCTCCCGTTGG 1191
QY 836 ATCTTTTGTGTACAAATCTGTCGCGAAATCTGTCAGGTGACGCCCAACTTTTCTTTGCTGT 895
Db 1192 TTTCTATTTGGGACTGTAGTTGTGTAAGAAATTCGAGTGTGCTCCCAACACCCGTTGCTG 1251
QY 896 TCAATGCTGTGCTGCTCTATACCGGAGAAAAAATGGTTTCATGAGCGCTCGGTTATTG 955
Db 1252 TGAATAACGATCCCGCGCCCAATTCCTGAAAAAGAGTGTACCTTACACCTTCTGTATTT 1311
QY 956 TTTGCTCGGTGGAAATTTTACCTTTTGGTTCAATCTTTTATGAAATGTTATTTCACTTCA 1015
Db 1312 CACTGATGGGTGGACTTCTCCCTTTCGGCAGCATCTTCAITGAGATGTTACTTCCGTATCA 1371
QY 1016 CGCTCTTTCTGGGCAATATAAGATCTATTATGCTATGGCTTCATGATGCTGTGCTGTTA 1075
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QY 1076 TCTGTGCAATTTGTAAGTCTGTGTGTAATTTGTGTCACATATTTTCTACTAATGAG 1135
Db 1432 TCTCATATAATAGTCAACCGTATGTCATATTTGGGGTACTTATTTCTTTGTTGAATGCTG 1491
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Db 1492 AGAATCATATGGAATGGCAATGGACATCAATCTTCTCTGCTGCTTCTACCGCTTGTATGTT 1551
QY 1196 ACATGATATCTTTTACTACTATTTTTCAAAACAAAGATGATGTTTCAATCAT 1255
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QY 1256 CATTTTACTTTGGATATATGCGGTATTTTACACAGCCCTGGGGATATGTTGTCGAGCGA 1315
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QY 1316 TT 1317
Db 1672 TT 1673
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GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: November 17, 2004, 17:17:22 ; Search time 82.6099 Seconds  
(without alignments)  
1881.882 Million cell updates/sec

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Perfect score: 2347  
Sequence: 1 MYIDLPINGIVEADNGE.....FVFGYMAVFSTALGIMCGAI 439

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 1570615 seqs, 354127592 residues

Total number of hits satisfying chosen parameters: 1570615

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000  
Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

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2: /cgn2\_6/ptodata/2/pubpaa/PCT\_NEW\_PUB.pep.\*  
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9: /cgn2\_6/ptodata/2/pubpaa/US09A\_PUBCOMB.pep.\*  
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13: /cgn2\_6/ptodata/2/pubpaa/US10A\_PUBCOMB.pep.\*  
14: /cgn2\_6/ptodata/2/pubpaa/US10B\_PUBCOMB.pep.\*  
15: /cgn2\_6/ptodata/2/pubpaa/US10C\_PUBCOMB.pep.\*  
16: /cgn2\_6/ptodata/2/pubpaa/US10D\_PUBCOMB.pep.\*  
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18: /cgn2\_6/ptodata/2/pubpaa/US11\_NEW\_PUB.pep.\*  
19: /cgn2\_6/ptodata/2/pubpaa/US60\_NEW\_PUB.pep.\*  
20: /cgn2\_6/ptodata/2/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	ID	Description
1	2340	99.7	545	10	US-09-374-046A-26
2	2340	99.7	545	15	US-10-616-263-26
3	1543	65.7	530	14	US-10-205-219-121
4	1437	61.2	596	17	US-10-425-115-325471
5	1436	61.2	576	15	US-10-425-114-66140
6	1435	61.1	552	17	US-10-425-115-286624
7	1430	60.9	594	16	US-10-767-701-44284
8	1428.5	60.9	595	17	US-10-425-115-325582
9	1424	60.7	617	16	US-10-437-963-141888
10	1412	60.2	596	16	US-10-437-963-116913
11	1411	60.1	595	17	US-10-739-930-9909
12	1278.5	54.5	424	16	US-10-437-963-103141
13	1158	49.3	500	17	US-10-425-115-206340

14	915.5	39.0	341	15	US-10-424-599-246293	Sequence 246293,
15	911.5	38.8	692	17	US-10-425-115-202293	Sequence 202293,
16	910.5	38.8	627	15	US-10-425-114-42573	Sequence 42573, A
17	907.5	38.7	595	16	US-10-767-701-45514	Sequence 45514, A
18	906	38.6	624	15	US-10-425-114-45661	Sequence 45661, A
19	906	38.6	647	15	US-10-424-599-204944	Sequence 204944,
20	905.5	38.6	589	17	US-10-425-115-359244	Sequence 359244,
21	903	38.5	645	17	US-10-739-930-11074	Sequence 11074, A
22	902.5	38.5	623	15	US-10-425-114-62405	Sequence 62405, A
23	901.5	38.4	594	17	US-10-424-599-174369	Sequence 174369,
24	900.5	38.4	592	15	US-10-739-930-11084	Sequence 11084, A
25	887	37.8	627	16	US-10-437-963-120941	Sequence 120941,
26	852.5	36.3	559	17	US-10-739-930-10304	Sequence 10304, A
27	851.5	36.3	893	16	US-10-437-963-177000	Sequence 177000,
28	842.5	35.9	625	14	US-10-394-136-54	Sequence 54, Appl
29	842.5	35.9	642	14	US-10-201-964-1	Sequence 1, Appl
30	818	34.9	820	16	US-10-437-963-165390	Sequence 165390,
31	812	34.6	218	15	US-10-264-237-2819	Sequence 2819, Ap
32	799	34.0	253	17	US-10-425-115-206342	Sequence 206342, A
33	786	33.5	237	15	US-10-425-114-37646	Sequence 37646, A
34	782	33.3	513	15	US-10-424-599-195511	Sequence 195511,
35	772.5	32.9	642	16	US-10-437-963-150528	Sequence 150528,
36	763.5	32.5	670	17	US-10-739-930-10578	Sequence 10578, A
37	758	32.3	639	17	US-10-425-115-193953	Sequence 193953,
38	757	32.3	637	15	US-10-424-599-218357	Sequence 218357,
39	754	32.1	639	17	US-10-425-115-194452	Sequence 194452,
40	752	32.0	639	17	US-10-425-115-194454	Sequence 194454,
41	750.5	32.0	646	16	US-10-437-963-136356	Sequence 136356,
42	750	32.0	151	14	US-10-002-631C-135	Sequence 135, App
43	746.5	31.8	663	14	US-10-394-136-2	Sequence 2, Appl
44	744	31.7	659	16	US-10-437-963-128426	Sequence 128426,
45	743	31.7	637	15	US-10-424-599-197142	Sequence 197142,

ALIGNMENTS

RESULT 1

US-09-374-046A-26  
; Sequence 26, Application US/09374046A  
; Publication NO. US20030096951A1  
; GENERAL INFORMATION:  
; APPLICANT: Jacobs, Kenneth  
; APPLICANT: McCoy, John M.  
; APPLICANT: Lavallie, Edward R.  
; APPLICANT: Collins-Racie, Lisa A.  
; APPLICANT: Evans, Cheryl  
; APPLICANT: Treacy, Maurice  
; APPLICANT: Treacy, Maurice  
; APPLICANT: Acostino, Michael J.  
; APPLICANT: Steininger II, Robert J.  
; APPLICANT: Spaulding, Vikki  
; APPLICANT: Wong, Gordon G.  
; APPLICANT: Clark, Hilary  
; APPLICANT: Fectel, Kim  
; APPLICANT: Genetics Institute, Inc.  
; TITLE OF INVENTION: SECRETED PROTEINS AND POLYNUCLEOTIDES ENCODING THEM  
; FILE REFERENCE: GI 6075-83A  
; CURRENT APPLICATION NUMBER: US/09/374,046A  
; CURRENT FILING DATE: 1999-08-13  
; NUMBER OF SEQ ID NOS: 240  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 26  
; LENGTH: 545  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-374-046A-26

Query Match 99.7%; Score 2340; DB 10; Length 545;  
Best Local Similarity 99.8%; Pred. No. 2.1e-219;  
Matches 438; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MYIDLPINGIVEADNGEDYILWYTKLEIGFNGNRIVDNLTSEGKVLVPNTKQM 60

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Db      88 MYIDDLPIWIGVGEADENGEDYILWYTKLEIGFNGNRIVDVNLTSBGKVLVPTNKIQM 147
QY      61 SYSVKWKSVDKFDKYLDPSPFFQHRHWFISFNSFMMVIFLVGLVSMILMRLTKD 120
Db      148 SYSVKWKSVDKFDKYLDPSPFFQHRHWFISFNSFMMVIFLVGLVSMILMRLTKD 207
QY      121 YARYSKEEMDDMDRLDGLDEYGVKQVHGDVFRPSSHPLIFSSLIGSGCQIFAVSLIIV 180
Db      208 YARYSKEEMDDMDRLDGLDEYGVKQVHGDVFRPSSHPLIFSSLIGSGCQIFAVSLIIV 267
QY      181 AMIEDLYTERGSMSTALFVYAAATSPVNGYFGGSLYARQGGRRWKQMFICAFILIPAMVC 240
Db      268 AMIEDLYTERGSMSTALFVYAAATSPVNGYFGGSLYARQGGRRWKQMFICAFILIPAMVC 327
QY      241 GTAFINFIATYYHASRAIPFGTVMVAVCCICFFVILPLNLVGTILGRNLSGQNPFCRVN 300
Db      328 GTAFINFIATYYHASRAIPFGTVMVAVCCICFFVILPLNLVGTILGRNLSGQNPFCRVN 387
QY      301 AVPRPIPEKKWMEPAVIVCLGGILPFGSIFIEFYFTSFWAYKIYVYVGFMMMLVLVIL 360
Db      388 AVPRPIPEKKWMEPAVIVCLGGILPFGSIFIEFYFTSFWAYKIYVYVGFMMMLVLVIL 447
QY      361 CIVTVCVTIVCTYFLNADRYRWQWTSFLSAASTAIYVYMYSFYYPFKTKMYGLFQTSF 420
Db      448 CIVTVCVTIVCTYFLNADRYRWQWTSFLSAASTAIYVYMYSFYYPFKTKMYGLFQTSF 507
QY      421 YFGYMAVFPSTALGIMCGAI 439
Db      508 YFGYMAVFPSTALGIMCGAI 526

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RESULT 2
US-10-616-263-26
; Sequence 26, Application US/10616263
; Publication No. US20040038276A1
; GENERAL INFORMATION:
; APPLICANT: Jacobs, Kenneth
; APPLICANT: McCoy, John M.
; APPLICANT: LaVallie, Edward R.
; APPLICANT: Collins-Racie, Lisa A.
; APPLICANT: Evans, Cheryl
; APPLICANT: Werberg, David
; APPLICANT: Treacy, Maurice
; APPLICANT: Agostino, Michael J.
; APPLICANT: Steinginger II, Robert J.
; APPLICANT: Spaulding, Vikki
; APPLICANT: Wong, Gordon G.
; APPLICANT: Clark, Hilary
; APPLICANT: Fectel, Kim
; APPLICANT: Genetics Institute, Inc.
; TITLE OF INVENTION: SECRETED PROTEINS AND POLYNUCLEOTIDES ENCODING THEM
; FILE REFERENCE: 00766.000103.5
; CURRENT APPLICATION NUMBER: US/10/616.263
; CURRENT FILING DATE: 2003-07-08
; NUMBER OF SEQ ID NOS: 240
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 26
; LENGTH: 545
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-616-263-26

Query Match      99.7%; Score 2340; DB 15; Length 545;
Best Local Similarity 99.8%; Pred. No. 2.1e-219;
Matches 438; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 MYIDDLPIWIGVGEADENGEDYILWYTKLEIGFNGNRIVDVNLTSBGKVLVPTNKIQM 60
Db      88 MYIDDLPIWIGVGEADENGEDYILWYTKLEIGFNGNRIVDVNLTSBGKVLVPTNKIQM 147
QY      61 SYSVKWKSVDKFDKYLDPSPFFQHRHWFISFNSFMMVIFLVGLVSMILMRLTKD 120

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Db      148 SYSVKWKSVDKFDKYLDPSPFFQHRHWFISFNSFMMVIFLVGLVSMILMRLTKD 207
QY      121 YARYSKEEMDDMDRLDGLDEYGVKQVHGDVFRPSSHPLIFSSLIGSGCQIFAVSLIIV 180
Db      208 YARYSKEEMDDMDRLDGLDEYGVKQVHGDVFRPSSHPLIFSSLIGSGCQIFAVSLIIV 267
QY      181 AMIEDLYTERGSMSTALFVYAAATSPVNGYFGGSLYARQGGRRWKQMFICAFILIPAMVC 240
Db      268 AMIEDLYTERGSMSTALFVYAAATSPVNGYFGGSLYARQGGRRWKQMFICAFILIPAMVC 327
QY      241 GTAFINFIATYYHASRAIPFGTVMVAVCCICFFVILPLNLVGTILGRNLSGQNPFCRVN 300
Db      328 GTAFINFIATYYHASRAIPFGTVMVAVCCICFFVILPLNLVGTILGRNLSGQNPFCRVN 387
QY      301 AVPRPIPEKKWMEPAVIVCLGGILPFGSIFIEFYFTSFWAYKIYVYVGFMMMLVLVIL 360
Db      388 AVPRPIPEKKWMEPAVIVCLGGILPFGSIFIEFYFTSFWAYKIYVYVGFMMMLVLVIL 447
QY      361 CIVTVCVTIVCTYFLNADRYRWQWTSFLSAASTAIYVYMYSFYYPFKTKMYGLFQTSF 420
Db      448 CIVTVCVTIVCTYFLNADRYRWQWTSFLSAASTAIYVYMYSFYYPFKTKMYGLFQTSF 507
QY      421 YFGYMAVFPSTALGIMCGAI 439
Db      508 YFGYMAVFPSTALGIMCGAI 526

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RESULT 3
US-10-205-219-121
; Sequence 121, Application US/10205219
; Publication No. US20030138803A1
; GENERAL INFORMATION:
; APPLICANT: Warner-Lambert Company
; APPLICANT: Lee, Kevin
; APPLICANT: Dixon, Alistair
; APPLICANT: Brooksbank, Robert
; APPLICANT: Pinnoch, Robert
; TITLE OF INVENTION: Identification and Use of Molecules Implicated in Pain
; FILE REFERENCE: WL-A-018200
; CURRENT APPLICATION NUMBER: US/10/205,219
; CURRENT FILING DATE: 2002-07-24
; PRIOR APPLICATION NUMBER: GB 0118354.0
; PRIOR FILING DATE: 2001-07-27
; NUMBER OF SEQ ID NOS: 197
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 121
; LENGTH: 530
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: BP70-P-iso
US-10-205-219-121

Query Match      65.7%; Score 1543; DB 14; Length 530;
Best Local Similarity 75.5%; Pred. No. 1.4e-141;
Matches 318; Conservative 12; Mismatches 51; Indels 40; Gaps 7;

QY      1 MYIDDLPIWIGVGEADENGEDYILWYTKLEIGFNGNRIVDVNLTSBGKVLVPTNK 57
Db      131 MYIDDLPIWIGVGEADENGEDYILWYTKLEIGFNGNRIVDVNLTSBGKVLGSKYINPD 190
QY      58 IOMSVSVKWKSDYKFDKYLDPSPFFQHRHWFISFNSFMMVIFLVGLVSMILMRLTKD 117
Db      191 VIFS---KMEKSDVKFDRFDNII-IVLFSHRIHWFISFNSFMMVIFLVGLVSMILMRLTKD 246
QY      118 RKDYARYSKEEMDDMDRLDGLDEYGVKQVHGDVFRPSSHPLIFSSLIGSGCQIFAVSLIIV 177
Db      247 RKDYARYSKEEMDDMDRLDGLDEYGVKQVHGDVFRPSSHPLIFSSLIGSGCQIFAVSLIIV 306
QY      178 IIVAMIEDLYTERGSMSTALFVYAAATSPVNGYFGGSLYARQGGRRWKQMFICAFILIPA 237
Db      307 IIVAMIEDLYTERGSMSTALFVYAAATSPVNGYFGGSLYARQGGRRWKQMFICAFILIPA 366

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QY 238 MVOGTAFFINFIAIYHSAIRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLGSGQPNFPC 297
Db 367 M-----GVHCLLHQFH-SHLLP-----CFKSHSFNNNGRLLHLFFCYSSKSC 409
QY 298 RVNAVPRPIPE-----KKWMEPAVIVCLGILPFGSIFIEMYFTFTSF 341
Db 410 WYNTWPKSVRSQAQLSLSCQCCASSYTGEKMHGAIVIVCLGILPFGSIFIEMYFTFTSF 469
QY 342 WAKYIYVYVGFMMVLVILCIVTCVITVCTYELLNAEDYRWQWTSFLSAASTAIYVYMY 401
Db 470 WAKYIYVYVGFMMVLVILCIVTCVITVCTYELLNAEDYRWQWTSFLSAASTAIYVYMY 529
QY 402 S 402
Db 530 S 530

RESULT 4
US-10-425-115-325471
; Sequence 325471, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 325471
; LENGTH: 596
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_598c.1.pap
US-10-425-115-325471

Query Match 61.2%; Score 1437; DB 17; Length 596;
Best Local Similarity 59.5%; Pred. No. 3.5e-131;
Matches 262; Conservative 74; Mismatches 102; Indels 2; Gaps 2;

QY 2 YIDDLPIWGIYGEADENGED-YILWTYKLEIGFNGNRIVDVNLTSGKVKLVPTNKIQM 60
Db 138 FIDDLPLWGFVGEDSKSNKHLYLTHKNILVKYNDNRHIVNLTOESPCKLEDGKKLEM 197
QY 61 SYSVKKKSDYKPEDREDKYLDPSPFOHRIHWFSIFNSFMWVIFLGLVSMILMRLTKD 120
Db 198 TYSVKWATDVSFARRFEVLDYDFPEHQHWFSEFNSFMWVIFLGLVSMILMRLTNRD 257
QY 121 YARYSKE-EEMDDMDRLDGEYGWKQVHGDVFRPSSHPLIFSSLIGSGCQIFAVSLIIV 179
Db 258 YAKYAREDDDDLESLEDRDNEESGKLVHGDVFRPSPRSLMFLSALVIGTQLAAILLVIV 317
QY 180 VAMIEDLYTERGSMSTAFVYAATSPVNGYFGSLVARQGRRWIKOMFAGFLIPAMV 239
Db 318 LAIVGMLYIGRGAIITTFIVCYALTSTISGVSGLYSRGGKWKIKAMILTASLFPFLC 377
QY 240 CGTAAFFINFIAIYHSAIRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLGSGQPNFPCRV 299
Db 378 PSIGFMLNTIAIFRSLAAIDFGTMVWFLWAFISFPLVLLGTIVGNNWSGAPNPCR 437
QY 300 NAVPRPIPEKKWMEPAVIVCLGILPFGSIFIEMYFTFTSFWMAYKIYVYVGFMMVLV 359
Db 438 KTIIPRPIPEKKWYLTSPVISLMGGLLPFGSIFIEMYFVFTSFWMYKVVYVYVGFMLLVFV 497
QY 360 LCIVTVCTVITVCTYELLNAEDYRWQWTSFLSAASTAIYVYMYSPYFFFTKMYGLFQTS 419
Db 498 LLIIVTCVITVGTITVCTYELLNAEDYRWQWTSFLSAASTAIYVYMYSPYFFFTKMYGLFQTS 557
QY 420 FYFGYMAVFSTALGIMCGAI 439

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Db 558 FYFGYTMFLCLGLGLOCAI 577

RESULT 5
US-10-425-114-66140
; Sequence 66140, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jinsong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 66140
; LENGTH: 576
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: LIB4573-008-E4_FLI.pap
US-10-425-114-66140

Query Match 61.2%; Score 1436; DB 15; Length 576;
Best Local Similarity 59.2%; Pred. No. 4.2e-131;
Matches 261; Conservative 74; Mismatches 104; Indels 2; Gaps 2;

QY 1 MYIDDLPIWGIYGEADENGED-DYILWTYKLEIGFNGNRIVDVNLTSGKVKLVPTNKIQ 59
Db 117 LFIDDLPLWGFVGETDKNEKHHYLYTHKNIVKYNRNRIHVNLTQSPKLEAGKKLD 176
QY 60 MSYSVKKKSDYKPEDREDKYLDPSPFOHRIHWFSIFNSFMWVIFLGLVSMILMRLTK 119
Db 177 MTYSVKWQVQTVAFARFEVLDYDFPEHQHWFSEFNSFMWVIFLGLVSMILMRLTNR 236
QY 120 DYARYSKE-EEMDDMDRLDGEYGWKQVHGDVFRPSSHPLIFSSLIGSGCQIFAVSLIIV 178
Db 237 DYAKYAREDDDDLESLEDRDNEESGKLVHGDVFRPGRQVFLSALVIGTQLAAILLVIV 296
QY 179 IVAMIEDLYTERGSMSTAFVYAATSPVNGYFGSLVARQGRRWIKOMFAGFLIPAM 238
Db 297 VLAIVVMLYVGRGAIITTFIVCYALTSTISGVSGLYSRGGKWKIKAMILTASLFPFL 356
QY 239 VCGTAAFFINFIAIYHSAIRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLGSGQPNFPCRV 298
Db 357 CFSIGLMLNTIAIFRSLAAIDFGTMVWFLWAFISFPLVLLGTIVGNNWSGAPNPCR 416
QY 299 VNAVPRPIPEKKWMEPAVIVCLGILPFGSIFIEMYFTFTSFWMAYKIYVYVGFMMVLV 358
Db 417 VKTIIPRPIPEKKWYLTSPVISLMGGLLPFGSIFIEMYFVFTSFWMYKVVYVYVGFMLLVFV 476
QY 359 LCIVTVCTVITVCTYELLNAEDYRWQWTSFLSAASTAIYVYMYSPYFFFTKMYGLFQTS 418
Db 477 LLIIVTCVITVGTITVCTYELLNAEDYRWQWTSFLSAASTAIYVYMYSPYFFFTKMYGLFQTS 536
QY 419 SFYFGYMAVFSTALGIMCGAI 439
Db 537 SFYFGYTMFLCLGLGLOCAV 557

RESULT 6
US-10-425-115-286624
; Sequence 286624, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.

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; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 286624
; LENGTH: 552
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_24498C.1.pap
US-10-425-115-286624

Query Match      61.1%; Score 1435; DB 17; Length 552;
Best Local Similarity 59.0%; Pred. No. 5e-131;
Matches 260; Conservative 75; Mismatches 104; Indels 2; Gaps 2;

QY 1 MYIDLPINGVIGADENG-YYLWTKYKLEIGFNGNRIVDVNLTSEGKVKLVPTKIQ 59
DB 93 LFIDLPWVGFGVETDKNEKKHLYTHKNLVXYNDRIIHVNLTOESPKLLEAGKLD 152
QY 60 MSYSVKKKSDVKFEDRFDKYLDPFQHRHWFSPFNSFMMVIFLVGLVSMILMRTLR 119
DB 153 MTYSVKWQTVAFARRFEVLDYFPFHHQIHWFSIFNSFMMVIFLVGLVSMILMRTLR 212
QY 120 DYARYSKE-EEMDDMDRLGDEYKQVHGVDFRPPSSHPILFSSLGSGCOIFAVSLIVI 178
DB 213 DYAKYAREDDLESLEDRDYNESGKLVHGVDFRPPSGVFLSALVIGIGTQLAALILVI 272
QY 179 IVAMIEDLYTERGSMSTAFVYAATSPVNGYFGGSLYARQGGRRWIKQFICAFILIPAM 238
DB 273 VLAIWMLYVGRGAIITTFIVCYALTFSISGVSGGLYSRNGGKNWIKAMILTASLPFPL 332
QY 239 VCGTAFINFIATYHSAIRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLSGQNPPCR 298
DB 333 CFSGLGLLNTAIYRSLAATPFGTMVAVCCICFFVILPLNLVGTILGRNLSGQNPPCR 392
QY 299 VNAYPRPIPEKKWMPAPVIVCLGILPFGSIFIEFYFTSFWAYKIYVYVGFMMVLV 358
DB 393 VKTIPRIPEKKWLTSPVSLMGGLLPFGSIFIEFYFTSFWAYKIYVYVGFMMVLV 452
QY 359 ILCITVTCVTIVCTYFLNADRYKQWTSFLSAASTAIYVYVGFMMVLV 418
DB 453 ILIIVTICVTIVCTYFLNADRYKQWTSFLSAASTAIYVYVGFMMVLV 512
QY 419 SPFYGYMAVFTALGIMCGAI 439
DB 513 SPFYGYTLMFCLGLGILCGAV 533

RESULT 7
US-10-767-701-44284
; Sequence 44284, Application US/10767701
; Publication No. US20040172684A1
; GENERAL INFORMATION:
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Uses Thereof For Plant Improvement
; FILE REFERENCE: 38-21(53535)B
; CURRENT APPLICATION NUMBER: US/10/767,701
; CURRENT FILING DATE: 2004-01-29
; NUMBER OF SEQ ID NOS: 63128
; SEQ ID NO 44284
; LENGTH: 594
; TYPE: PRT
; ORGANISM: Sorghum bicolor
; FEATURE:
; NAME/KEY: unsure

; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 286624
; LENGTH: 552
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_24498C.1.pap
US-10-425-115-325582

Query Match      60.9%; Score 1428.5; DB 17; Length 595;
Best Local Similarity 59.4%; Pred. No. 2.4e-130;
Matches 262; Conservative 73; Mismatches 103; Indels 3; Gaps 3;

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; LOCATION: (1)..(594)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: SORBI-28MAY03-C12526_1.pap
US-10-767-701-44284

Query Match      60.9%; Score 1430; DB 16; Length 594;
Best Local Similarity 59.3%; Pred. No. 1.7e-130;
Matches 261; Conservative 74; Mismatches 103; Indels 2; Gaps 2;

QY 2 YIDDLPIWIGVIGADENG-YYLWTKYKLEIGFNGNRIVDVNLTSEGKVKLVPTKIQ 60
DB 136 FIDDLPLWVGFGVETDKNGENKHYLTHKNLVXYNDRIIHVNLTOESPKLLEAGKLD 195
QY 61 SYSVKKKSDVKFEDRFDKYLDPFQHRHWFSPFNSFMMVIFLVGLVSMILMRTLR 120
DB 196 TYSVKWATDVSFARRFEVLDYFPFHHQIHWFSIFNSFMMVIFLVGLVSMILMRTLR 255
QY 121 VARYSKE-EEMDDMDRLGDEYKQVHGVDFRPPSSHPILFSSLGSGCOIFAVSLIVI 179
DB 256 YAKYAREDDLESLEDRDYNESGKLVHGVDFRPPSXVFLSALVIGIGTQLAALSRLIV 315
QY 180 VAMIEDLYTERGSMSTAFVYAATSPVNGYFGGSLYARQGGRRWIKQFICAFILIPAM 239
DB 316 LAIVGMLYGRGAIITTFIVCYALTFSISGVSGGLYSRNGGKNWIKAMILTASLPFPL 375
QY 240 CGTAFINFIATYHSAIRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLSGQNPPCR 299
DB 376 FSGIHALNTAIYRSLAATPFGTMVAVCCICFFVILPLNLVGTILGRNLSGQNPPCR 435
QY 300 NAVPRPIPEKKWMPAPVIVCLGILPFGSIFIEFYFTSFWAYKIYVYVGFMMVLV 359
DB 436 KTIPRIPEKKWLTSPVSLMGGLLPFGSIFIEFYFTSFWAYKIYVYVGFMMVLV 495
QY 360 LCITVTCVTIVCTYFLNADRYKQWTSFLSAASTAIYVYVGFMMVLV 419
DB 496 LLIIVTICVTIVCTYFLNADRYKQWTSFLSAASTAIYVYVGFMMVLV 555
QY 420 PFYGYMAVFTALGIMCGAI 439
DB 556 PFYGYTLMFCLGLGILCGAI 575

RESULT 8
US-10-425-115-325582
; Sequence 32582, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 325582
; LENGTH: 595
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(595)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_599C.1.pap
US-10-425-115-325582

Query Match      60.9%; Score 1428.5; DB 17; Length 595;
Best Local Similarity 59.4%; Pred. No. 2.4e-130;
Matches 262; Conservative 73; Mismatches 103; Indels 3; Gaps 3;

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[illegible]

	Query Match	60.7%;	Score 1424;	DB 16;	Length 617;
	Best Local Similarity	58.9%;	Pred. No. 6.8e-130;		
	Matches 259;	Conservative 75;	Mismatches 104;	Indels 2;	Gaps 2;
Qy	2 YIDPLPIWGIVGEADENGED-YVLTWYKKLEIGNGNRIVDVNLTSGEKVKLVENTKIQM	60	:	:	:
	: :		:	:	:
Dd	132 FIDDLPLWGFVGAEADNSDNKYF-FTHKNIVIRYNGNQI IHWNLTSQPSPKLIDAGAKALDM	191	:	:	:
Qy	61 SYSVWKKSVDKFDPRFKYLDPDFSFQRHRIWFISFNFMVFIVLGVLSMILRTLEKD	120	:	:	:
	: :		:	:	:
Dd	192 TYSVKWEPTNTVFARRFPVILDYFFFEHQIHWFISFNFMVFIITGLVSMILARTLEND	251	:	:	:

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121 YARYSK-BEEMDMORDLDGDEYGVKQVHGDFRPSHPLIFSSLLIGSCQIFAVSLIVII 179
Db YARYARDDDDLTLEDRDSEESGKLVHGDVFRPRSLALLSALVGGGTQSAILLIVIL 311
QY 180 VAMIEDLYTERGSMLSLTAIFVVAATSPVNGYFGGSLYARQGRRWIKOMFIGAFILIPAMV 239
Db 312 LAIIGMLYIGRAIVTTFIVCVALTSTFISGYVSGALYSRHGGKWKAMINTASLFPFMC 371
QY 240 CGTAFINFIATYYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLGSGQNPFCRV 299
Db 372 FGIGLVNLTATFYRSLAAPFGTMVAVFILLWAFISFELALLGTVVGNNWGANNPCRV 431
QY 300 NAYPRPIPEKKMFEMPAVILGGLIPGSGPIEMWYFTSFWAYKIYVYVGFMMLVLI 359
Db 432 KTIPRIPEKKWILPSTVIALMGGLLPGSGPIEMWYFTSFWAYKYVYVGFMLLVLI 491
QY 360 LCITVTCVITVCTYFILNAEDYRWQMTGFLSAASTAIYVYMYSFYVYFETKMYGLPOTS 419
Db 492 LIITVTCVITVCTYFILNAENYHWQMTGFLSAASTAVVYLYSVYVYHVKTMSGFFOTS 551
QY 420 FYFGYMAVFSIALGIMCGAI 439
Db 552 FYFGYILMFCLGLGLTCGKL 571

RESULT 10
US-10-437-963-116913
; Sequence 116913, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated with
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 116913
; LENGTH: 596
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_2036C.1.dep
US-10-437-963-116913

Query Match 60.2%; Score 1412; DB 16; Length 596;
Best Local Similarity 59.3%; Pred. No. 9.7e-129;
Matches 261; Conservative 71; Mismatches 104; Indels 4; Gaps 3;

QY 2 YIDDLPIWGVGADENGED-YLVWTYKLEIGFGNRIVDVNLISEGKVLVPNTKIQM 60
Db 140 FMDDL-WGPFVGTDXNENKRYLYTHKSLYLVKNDNRIHVNLTQESPKLLEAGKLDL 197
QY 61 SYSVWKKSDVKEDRFDKYLDPSPFOHRHWFISFNSEPMVIFVLGVLSMLMTLRKD 120
Db 198 TYSVKMLQTDVTFARFEVYLDYPFEHQHWFISFNSEPMVIFLTGLVSMILMRLND 257
QY 121 YARYSKE-BEEMDMORDLDGDEYGVKQVHGDFRPSHPLIFSSLLIGSCQIFAVSLIVII 179
Db 258 YAKYAREDDDLSELRDVBNEESGKLVHGDVFRPRSLAFLSAVVGIGTQLAALILVIV 317
QY 180 VAMIEDLYTERGSMLSLTAIFVVAATSPVNGYFGGSLYARQGRRWIKOMFIGAFILIPAMV 239
Db 318 LAIVGLVYVGRGSIITTFIVCVALTSTFISGYVSGALYSRHGGKWKAMINTASLFPFMC 377
QY 240 CGTAFINFIATYYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLGSGQNPFCRV 299

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Query Match	60.2%	Score 1412	DB 16	Length 596
Best Local Similarity	59.3%	Pred. No. 9.7e-129		
Matches 261	Conservative	71	Mismatches 104	Indels 4
				Gaps 3

QY	2	YIDDLFWIGIVGEADENGED--YYLTWYTYYKLELGFNGNRIVDVNLTSBGGKVLPVNTKIOM	60
	:	:::::	
Db	140	FMDLL--WGFFGETDKNNENKRYLYTHKSILVKYNONRNIHVNLTOESPCLLEAGCKKLDM	197
	:	:::::	
QY	61	SYSVZWKSKSDYKEEDRPDKYLDSPFOHRTHWESIENSFMWTFVLGVLVSMILMRLTRKD	120
	:	:::::	
Db	198	TYSVKNLGTDTFARFEVILDYDFPEHQJHWEISFNPFMWLFITGLVNSMLMRLTEND	257
	:	:::::	
QY	121	VARYSKE--EEMDDMDRLGDYGKWQVHGVDVPSPSHPIFSLGISGCCQIFAVSLIVII	179
	:	:::::	
Db	258	YAKYAREDDLESIEDLVNEESGWKLVBHGVDVFPFRPSLAFLSAVGVGIGTLAALILLVIV	317
	:	:::::	
QY	180	VAMIEDLYTESGSMLSTALFYVAATSPVNGYFGSGLVAROGGRWTKQFIGNAFIIPAMV	239
	:	:::::	
Db	318	LAIVGNLVVVGSGSIITFIVCYAUTSIGTVSGGLYSRNGGKWKAMILRTASLFPFLC	377
	:	:::::	
QY	240	CCTAFFINFIAYIHAGSRAPFGFTMAVVCCICPFVILPLNLVLTGIIRNLSGOENPPCRV	299

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Db 378 FAIGFVLNTIAIFRSLAAIPFGTMVNVFVLWAFISPLVLLGTWGRNWSGAPNNPCRV 437
Qy 300 NAVPRPIPEKWFEPVAVICLGLPGSIFIEWYFIFTSFWAYKIYVYVYVGMMLVVI 359
Db 438 KTIPIPIPEKWWITPVSISLGMGLLPFGSIFIEWYFVFTSFVYVYVYVGMMLVVI 497
Qy 360 LCIVTCVTICTVYFLLNAEDYRQWTSFSLAASATAIYVVMYSFYFFFKTKMYGLFQTS 419
Db 498 LLIVTICVTIVGTVYFLLNAENYHQWTSFSLAASATAIYVLYSIYVYVYVYVYVYVYV 557
Qy 420 FYFGMAVFSALGIMCGAI 439
Db 558 FYFGYTLMFCLGLGILCGAI 577

RESULT 11
US-10-739-930-9909
; Sequence 9909, Application US/10739930
; Publication No. US20040216190A1
; GENERAL INFORMATION:
; APPLICANT: Kovalic, David K.
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES AND OTHER MOLECULES ASSOCIATED WITH
; TITLE OF INVENTION: PLANTS AND USES THEREOF FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53377)B
; CURRENT APPLICATION NUMBER: US/10739,930
; CURRENT FILING DATE: 2003-12-18
; NUMBER OF SEQ ID NOS: 11088
; SEQ ID NO 9909
; LENGTH: 595
; TYPE: PRT
; ORGANISM: Triticum aestivum
; FEATURE:
; OTHER INFORMATION: Clone ID: TRIAB-23APR03-C2111_1.p
US-10-739-930-9909

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Query Match 60.1%; Score 1411; DB 17; Length 595;
Best Local Similarity 58.4%; Pred. No. 1.2e-128;
Matches 257; Conservative 74; Mismatches 107; Indels 2; Gaps 2;

Qy 2 YIDLPINGIVGEADENGED-YIWTYKKLEIGNGNRIVDVNLTSGKVKLVNPTKIOM 60
Db 137 FIDDLPLMGFVGETDKSNKXHYLYTHKNILVKNYDNRRIHVNLTQSPKLLDAGKNLDM 196
Qy 61 SYSVKKKSDVKFEDRDKYLDPSFFQHRHWFSEIFNSFMVIFLVGLVSMILMRTL-RKD 120
Db 197 TYSAKWPTDVSFARRFEVLDYFFEHQIHWFSIFNSFMVIFLTGLVSMILMRTL-RND 256
Qy 121 YARYSK-BEEMDDMDRLDGLDEYGHQVGDVFRPSSHPLIFSLLIGSGCQIFAVSLIVII 179
Db 257 YAKYARDDDDLESERDVNEESGKLVHGDVFRPSSLTLLSALVIGTGTLAALLLVIV 316
Qy 180 VAMIEDLYTERGSMSTAIYVAATSPVNGYFGSLYAROGGRWIKOMFIFGLPAMV 239
Db 317 LAIVGMLYVGRGAIITTFVYALTSFISGVSAAGLSRNGKWKIKAMILTASLPFFLH 376
Qy 240 CGTAFFINFIAIYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLSGQNPFCRV 299
Db 377 FAIGFALNTIAIFGSLAIPFGTMVIFVLMWAFISPLVLLGTWGRNWSGAPNNPCRV 436
Qy 300 NAVPRPIPEKWFEPVAVICLGLPGSIFIEWYFIFTSFWAYKIYVYVYVGMMLVVI 359
Db 437 KTIPIPIPEKWWITPVSISLGMGLLPFGSIFIEWYFVFTSFVYVYVYVYVYVYV 496
Qy 360 LCIVTCVTICTVYFLLNAEDYRQWTSFSLAASATAIYVVMYSFYFFFKTKMYGLFQTS 419
Db 497 LLIVTICVTIVGTVYFLLNAENYHQWTSFSLAASATAIYVLYSIYVYVYVYVYVYV 556
Qy 420 FYFGMAVFSALGIMCGAI 439
Db 557 FYFGYTLMFCLGLGILCGAI 576

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RESULT 12
US-10-437-963-103141
; Sequence 103141, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 103141
; LENGTH: 424
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(424)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_1005C.1.p
US-10-437-963-103141

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Query Match 54.5%; Score 1278.5; DB 16; Length 424;
Best Local Similarity 58.2%; Pred. No. 6.8e-116;
Matches 231; Conservative 67; Mismatches 98; Indels 1; Gaps 1;

Qy 44 LTSEGKVLVPNTKIOMSYVKKKSDVKFEDRDKYLDPSFFQHRHWFSEIFNSFMVVI 103
Db 10 ISQSPHTLEAGKLDMTYSVKWQTNVAFARFEVLDYFFEHQIHWFSIFNSFMVVI 69
Qy 104 FLVGLVSMILMRTLKDYARYSKE-BEMDDMDRLDGLDEYGHQVGDVFRPSSHPLFSS 162
Db 70 FLTGLVSMILMRTLKDYARYSKE-BEMDDMDRLDGLDEYGHQVGDVFRPSSHPLFSS 129
Qy 163 LTSGCQIFAVSLIVIIIVAMIEDLYTERGSMSTAIYVAATSPVNGYFGSLYAROGGR 222
Db 130 FVIGTQLAALLLVILVLAIVGMLYVGRGAIITTFVYALTSFISGVSGLSRNGGK 189
Qy 223 RMIKOMFIFGLPAMVCGTAFFINFIAIYHASRAIPFGTMVAVCCICFFVILPLNLV 282
Db 190 NMKSMILTASLPFLCFISGLVNLTAIFYRSLAAIPFGTMVIFVLMWAFISPLVLLG 249
Qy 283 TILGRNLSGQNPFCRVNAVPRPIPEKWFEPVAVICLGLPGSIFIEWYFIFTSFW 342
Db 250 TVGRNWSGAPNNPCRVKTIPIPEKWWITPVSISLGMGLLPFGSIFIEWYFVFTSF 309
Qy 343 AKYIYVYVYVGMMLVVLIVLCIVTCVTICTVYFLLNAEDYRQWTSFSLAASATAIYV 402
Db 310 NYKYVYVYVGMMLVVLIVLCIVTCVTICTVYFLLNAENYHQWTSFSLAASATAIYV 369
Qy 403 FYIYFFKTKMYGLFQTSFYFGYMAVFSALGIMCGAI 439
Db 370 IYIYHVKTMSGFFQTSFYFGYTLMFCLGLGILCGTV 406

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RESULT 13
US-10-425-115-206340
; Sequence 206340, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei

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; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 206340
; LENGTH: 500
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(500)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_119765C.1.pep
US-10-425-115-206340

Query Match      49.3%; Score 1158; DB 17; Length 500;
Best Local Similarity 56.7%; Pred. No. 4.9e-104;
Matches 212; Conservative 72; Mismatches 88; Indels 2; Gaps 2;

QY      2 YIDDLPLWGIWGEADENGED-YYLWTYKLEIGFNGNRIVDVNLTSSEGVKVLVPTNKIOM 60
Db      :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
127 FIDDLPLWGFVGEADRNDNKYFLFTHKNIVIRYNGQIIHVNLTOESPXLIDVNVKALDM 186
QY      61 SYSYWKKSVDKFEEDREDKYLDPSPFOHRIHWFSEIENSFMWVIFLVGLVSMILMRLRKD 120
Db      :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
187 TYSYKWEPTNITFAHRPDVLDYPPPEHQIHFWSIFNSPMMWIFLGLVSMILMRLRND 246
QY      121 YARYSK-EEEMDDMDRLDGBYKQVHGDFRPSHPLIFSSLGSGCOIFAVSLIVII 179
Db      :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
247 YAKYARDDDDIETLERDNEESGKLVHGDFVRPPCNLVLLSALVIGTQALAILLVIL 306
QY      180 VAMIEDLYTERGSMLSIAIFYAATSPVNGYFGGSLYARQGGRRWIKQMPFIGAFLIPAMV 239
Db      :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
307 LAIIGMLYICGALVITFVYALTSPISGVSGALYSRHGGKWKAMAMTASLPFPMC 366
QY      240 CGTAFFINFIAIYHASRAIPFGTMVAVCCICFFVLPLNLVTILGRNLGQGNPPCRV 299
Db      :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
367 FGIGLVNTIAIFYGSLAAIPFGTMVVFILWAFISFPFALLGTVVGRNWSGAPNPNCRV 426
QY      300 NAVPRPIPEKKWMEPAVIVCLGILPFGSIFIEYFIPTSWAYKIYVYVGMVLVLI 359
Db      :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
427 KTIIPRIPEKKWYLTSPVIALMGLLPFGSIFIEYFIPTSWAYKIYVYVGMVLVLI 486
QY      360 LCIVTCVTVCTY 373
Db      :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
487 LIIVXICVTVGTY 500

RESULT 14
US-10-424-599-246293
; Sequence 246293, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 246293
; LENGTH: 341
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(341)
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; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_64434C.1.pep
US-10-424-599-246293

Query Match      39.0%; Score 915.5; DB 15; Length 341;
Best Local Similarity 55.0%; Pred. No. 1.4e-80;
Matches 181; Conservative 45; Mismatches 88; Indels 15; Gaps 4;

QY      112 ILMRTLKRDYARYSKEE-EMDDMDRLDGBYKQVHGDFRPSHPLIFSSLGSGCOI 170
Db      :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
8 ILMRLKNGYAMYNMEDADXSMEKDPVSGWKPFVHDVFQVLRYYVLSVVVSGGQR 67
QY      171 FAVSLIIVIAMIEDLYTERGSMLSIAIFYAATSPVNGYFGGSLYARQGGRRWIKQMI 230
Db      :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
68 GFLLLVXLVAS---FSWVGLTTIS---YA-----YVSGALCSLIGXNWKISML 113
QY      231 GAFILPAMVCGTAFPIFIATYIYHASRAIPFGTMVAVCCICFFVLPLNLVTILGRNLS 290
Db      :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
114 TASLFPFMCFGIGFTLNTIAIFYGSLAAIPFGTMVVFILWAFISFPFALLGTVVGRNWS 173
QY      291 GOPNPPCRVNAVPRPIPEKKWMEPAVIVCLGILPFGSIFIEYFIPTSWAYKIYVY 350
Db      :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
174 GAPNPPCRVKTIPRIPEKKWYLTSPVSLMGLLPFGSIFIEYFIPTSWAYKIYVY 233
QY      351 GPMVLVLVILCIVTCVTVCTYFLLNAEDYRWQWTSFSLSAATAIYVYMYFYFFPKT 410
Db      :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
234 GPMVLVLVILCIVTCVTVCTYFLLNAEDYRWQWTSFSLSAATAIYVYMYFYFFPKT 293
QY      411 KMYGIFQTSFYEGYNAVFEATGIMCGAI 439
Db      :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
294 RMSGFFQTSFYEGYNAVFEATGIMCGAI 439

RESULT 15
US-10-425-115-202293
; Sequence 202293, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 202293
; LENGTH: 692
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_116081C.1.pep
US-10-425-115-202293

Query Match      38.8%; Score 911.5; DB 17; Length 692;
Best Local Similarity 37.8%; Pred. No. 8.7e-80;
Matches 171; Conservative 96; Mismatches 168; Indels 17; Gaps 7;

QY      1 MYIDDLPLWGIWGEADENGED-----YYLWTYKLEIGFNGNRIVDVNLTSSE--GKVKL 52
Db      :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
226 MYIDDLPLWGIWGEADENGED-----YYLWTYKLEIGFNGNRIVDVNLTSSE--GKVKL 285
QY      53 VFN--TKTQMSYSYVWKKSVDKFEEDREDKYLDPSPFOHRIHWFSEIENSFMWVIFLVGL 108
Db      :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
286 TEDKETNVEFLYSYVWKKETPTPFERMEKYSSESSNMPHLEWHFWSIINSCVTLLTGF 345
QY      109 VSMILMRLTKRDYARYSKEEEMDDMDRLDGBYKQVHGDFRPSHPLIFSSLGSGC 168
Db      :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
346 LATILMRVKNDFVKIAHDEEAD-DQ---ESGKWIYHGDVFRFPKNSLFSALGTGT 401
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Qy	169	QIFAVSLIIVIAMIEDLYT-ERGSMLSTAIFVYAATSPVNGYEGGSLYARQGRRIKQ	227
Db	402	QLFALTTTFIFLLALVGVFPYNRGALFTALVVIYALTSGIAGYVATSFYSOLEGTNWVRN	461
Qy	228	MFIGAFLIPAMVCGTAFFINFIAIYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGR	287
Db	462	LLLTGCLFCGPLLLTFCFLNTVAIAYSATAALPGTICVIVLIWTLVTFPLLVGGIAGK	521
Qy	288	NLSGQNPFCRVNAVPRPIPEKKWFMEPAVIVCLGILPFGSIFIEMFIETSFWAYKIY	347
Db	522	NSKSEFOAPCRRTTKYPREIPPLPWYRTIPQMAWAGELPFSAIYIELYIFASVWGHRIY	581
Qy	348	VYVGFMMVLVILCIVTCTIVCTYFLLNAEDYRMOWTSFLSAASTAIYVYMYSFYYY	407
Db	582	TIYSILFIVFILLIVTAFITVITYQLAAEDHEWWRSLCGSGTGFFVYGYCLYYY	641
Qy	408	FKTKMYGLFQTSFYFGYNAVFSTALGINCGAI	439
Db	642	ARSDMSGFMQTSFFFGYMACICYAFFLMLGMV	673

Search completed: November 17, 2004, 17:35:39  
 Job time : 84.6099 secs

Result No.	Score	Match	Length	DB	ID	Description
1	1800	100.0	1627	4	US-09-786-681A-3	Sequence 3, Appl
2	1800	100.0	1872	4	US-09-786-681A-1	Sequence 1, Appl
3	444	24.7	444	4	US-09-621-976-1829	Sequence 18929, A
4	383.4	21.3	440	4	US-09-513-993C-3708	Sequence 3708, A
C 5	369.8	20.5	771	4	US-09-270-767-679	Sequence 679, App
C 6	369.8	20.5	771	4	US-09-270-767-15961	Sequence 15961, A
7	364.8	20.3	433	4	US-09-513-993C-3502	Sequence 3502, Ap
8	230.8	12.8	571	4	US-09-270-767-28434	Sequence 28434, A
9	220.8	12.8	1151	4	US-09-270-767-12633	Sequence 12633, A
10	227.6	12.6	2805	3	US-08-959-004-6	Sequence 6, Appl
11	161.2	9.0	995	4	US-09-270-767-14715	Sequence 14715, A
12	132.8	7.4	726	4	US-09-248-796A-6208	Sequence 6208, Ap
13	101	5.6	262	4	US-09-313-294A-2292	Sequence 2292, Ap
C 14	91.6	5.1	769	3	US-09-385-983-530	Sequence 530, App
C 15	64.6	3.6	302	4	US-09-702-705-1002	Sequence 1002, Ap
C 16	64.6	3.6	302	4	US-09-736-457-1002	Sequence 1002, Ap
C 17	64.6	3.6	302	4	US-09-614-124B-1002	Sequence 1002, Ap
C 18	64.6	3.6	302	4	US-09-671-323-1002	Sequence 1002, Ap
C 19	64.6	3.6	302	4	US-09-658-824-1002	Sequence 1002, Ap
C 20	56.4	3.1	279	4	US-09-313-294A-4533	Sequence 4533, Ap
21	51.8	2.9	7218	1	US-08-232-463-14	Sequence 14, Appl
22	51	2.8	1141	4	US-09-806-708B-22	Sequence 22, Appl
C 23	50.4	2.8	7218	1	US-08-232-463-14	Sequence 14, Appl
24	47.8	2.7	299	4	US-09-313-294A-772	Sequence 772, App
25	45.6	2.5	519	1	US-08-686-878A-20	Sequence 20, Appl
26	45.6	2.5	519	3	US-09-175-928-20	Sequence 20, Appl
C 27	45.4	2.5	1141	4	US-09-806-708B-22	Sequence 22, Appl



QY 361 ACATAGATGATTTACCAATATGGGGTATTTGGTGAAGCTGATGAAATCGAGAAAGATT 420  
 Db 425 ACATAGATGATTTACCAATATGGGGTATTTGGTGAAGCTGATGAAATCGAGAAAGATT 484  
 QY 421 ACTATCTTTGACCTATATAAAATCTGAAATAGGTTTAAATGGAATTCGAATTTGATG 480  
 Db 485 ACTATCTTTGACCTATATAAAATCTGAAATAGGTTTAAATGGAATTCGAATTTGATG 544  
 QY 481 TTAATCTAACTAGTGAAGGAAGTGAATCTGGTTCGAAATCTGAAATCTGAAATCTGAT 540  
 Db 545 TTAATCTAACTAGTGAAGGAAGTGAATCTGGTTCGAAATCTGAAATCTGAAATCTGAT 604  
 QY 541 ATTCAATAAATGAAAGAAAGTCAGATGTGAATTTGAAGATCGATTTGAGAAATATCTTG 600  
 Db 605 ATTCAATAAATGAAAGAAAGTCAGATGTGAATTTGAAGATCGATTTGAGAAATATCTTG 664  
 QY 601 ATCCGTCCTTTTCAACATCGGATTCATTGGTTTCAATTTTCAATTTTCAATTTTCAAT 660  
 Db 665 ATCCGTCCTTTTCAACATCGGATTCATTGGTTTCAATTTTCAATTTTCAATTTTCAAT 724  
 QY 721 CTGCTCTCTGCTGGCTTAGTTTCAATGATTTTAAATGAGAACATTAAGAAAGATATG 720  
 Db 725 TGAATCTCTGCTGGCTTAGTTTCAATGATTTTAAATGAGAACATTAAGAAAGATATG 784  
 QY 781 CTGCTCTCTGCTGGCTTAGTTTCAATGATTTTAAATGAGAACATTAAGAAAGATATG 780  
 Db 844 CTGCTCTCTGCTGGCTTAGTTTCAATGATTTTAAATGAGAACATTAAGAAAGATATG 840  
 QY 845 GATGAAACAGGTCATGGAGATGATTTAGAACATCAAGTCAACCACTGATATTTTCT 904  
 QY 841 CTGCTCTCTGCTGGCTTAGTTTCAATGATTTTAAATGAGAACATTAAGAAAGATATG 900  
 Db 905 CTGCTCTCTGCTGGCTTAGTTTCAATGATTTTAAATGAGAACATTAAGAAAGATATG 964  
 QY 901 TGATAGAGATTTATATCTGAGAGGGATCAATGCTCAGTACAGCCATATTTGCTATG 960  
 Db 965 TGATAGAGATTTATATCTGAGAGGGATCAATGCTCAGTACAGCCATATTTGCTATG 1024  
 QY 961 CTGCTCTCTGCTGGCTTAGTTTCAATGATTTTAAATGAGAACATTAAGAAAGATATG 1020  
 Db 1025 CTGCTCTCTGCTGGCTTAGTTTCAATGATTTTAAATGAGAACATTAAGAAAGATATG 1084  
 QY 1021 GGAGATGATTAAGAGAGATTTATGGGGATTCCTTATCCAGCTATGCTGTGGCA 1080  
 Db 1085 GGAGATGATTAAGAGAGATTTATGGGGATTCCTTATCCAGCTATGCTGTGGCA 1144  
 QY 1081 CTGCTCTCTGCTGGCTTAGTTTCAATGATTTTAAATGAGAACATTAAGAAAGATATG 1140  
 Db 1145 CTGCTCTCTGCTGGCTTAGTTTCAATGATTTTAAATGAGAACATTAAGAAAGATATG 1204  
 QY 1141 GAACAAATGCTGGCTTAGTTTCAATGATTTTAAATGAGAACATTAAGAAAGATATG 1200  
 Db 1205 GAACAAATGCTGGCTTAGTTTCAATGATTTTAAATGAGAACATTAAGAAAGATATG 1264  
 QY 1201 GTAACAACTGCTGGCTTAGTTTCAATGATTTTAAATGAGAACATTAAGAAAGATATG 1260  
 Db 1265 GTAACAACTGCTGGCTTAGTTTCAATGATTTTAAATGAGAACATTAAGAAAGATATG 1324  
 QY 1261 TGCTCTCTGCTGGCTTAGTTTCAATGATTTTAAATGAGAACATTAAGAAAGATATG 1320  
 Db 1325 TGCTCTCTGCTGGCTTAGTTTCAATGATTTTAAATGAGAACATTAAGAAAGATATG 1384  
 QY 1321 GTGAAATTTACCTTTTGGTTTCAATGATTTTAAATGAGAACATTAAGAAAGATATG 1380  
 Db 1385 GTGAAATTTACCTTTTGGTTTCAATGATTTTAAATGAGAACATTAAGAAAGATATG 1444  
 QY 1381 GGGCATATAGATCTATGCTATGCTATGCTATGCTATGCTATGCTATGCTATGCTATG 1440  
 Db 1445 GGGCATATAGATCTATGCTATGCTATGCTATGCTATGCTATGCTATGCTATGCTATG 1504

QY 1441 TTGTGATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1500  
 Db 1505 TTGTGATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1564  
 QY 1501 GGTGGCAATGGCAAGATTTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1560  
 Db 1565 GGTGGCAATGGCAAGATTTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1624  
 QY 1561 CCTTTTACTACTATTTTCTTTTCAAAACAAAGATGTAATGGCTTATTTCAACATCATTTT 1620  
 Db 1625 CCTTTTACTACTATTTTCTTTTCAAAACAAAGATGTAATGGCTTATTTCAACATCATTTT 1684  
 QY 1621 TTGGATATATGGCGGTATTTAGCACAGCCTTGGGATATATGTTGGAGGATTTGTTTACA 1680  
 Db 1685 TTGGATATATGGCGGTATTTAGCACAGCCTTGGGATATATGTTGGAGGATTTGTTTACA 1744  
 QY 1681 TGGGAACAAAGTCCCTTTTGTCCGAAAAATCTATPACTAATGTGAAAAATTCATAGACCCCA 1740  
 Db 1745 TGGGAACAAAGTCCCTTTTGTCCGAAAAATCTATPACTAATGTGAAAAATTCATAGACCCCA 1804  
 QY 1741 AGAAACCTGGAACTTTGGATCAATTTCTTTTCTATAGGGGTGAACTTGGACACAAAA 1800  
 Db 1805 AGAAACCTGGAACTTTGGATCAATTTCTTTTCTATAGGGGTGAACTTGGACACAAAA 1864

RESULT 3

US-09-621-976-18829  
 ; Sequence 18829, Application US/09621976  
 ; Patent No. 6639063  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Dumas Maline Edwards, J.B.  
 ; APPLICANT: Jobert, S.  
 ; APPLICANT: Giordano, J.Y.  
 ; TITLE OF INVENTION: ESTs and Encoded Human Proteins.  
 ; FILE REFERENCE: GENSET.054PR2  
 ; CURRENT APPLICATION NUMBER: US/09/621,976  
 ; NUMBER OF SEQ ID NOS: 19335  
 ; SOFTWARE: Patent.pm  
 ; SEQ ID NO 18829  
 ; LENGTH: 444  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; US-09-621-976-18829

Query Match 24.7%; Score 444; DB 4; Length 444;  
 Best Local Similarity 100.0%; Pred. No. 1.5e-112; Indels 0; Gaps 0;  
 Matches 444; Conservative 0; Mismatches 0;

QY 486 CTAACCTAGTGAAGGAAAGGTGAACTGGTTCCAAATACATAAAATCCAGATGTCATATTC 545  
 Db 1 CTAACCTAGTGAAGGAAAGGTGAACTGGTTCCAAATACATAAAATCCAGATGTCATATTC 60  
 QY 546 GTAAATGGAAGAAAGTGCAGATGTGAAATTTGAAGATCGATTTGACAAATATCTTGATCCG 605  
 Db 61 GTAAATGGAAGAAAGTGCAGATGTGAAATTTGAAGATCGATTTGACAAATATCTTGATCCG 120  
 QY 606 TCCTTTTTCACATCGGATTCATTGGTTTCAATTTTCAATTTTCAATTTTCAATTTTCAAT 665  
 Db 121 TCCTTTTTCACATCGGATTCATTGGTTTCAATTTTCAATTTTCAATTTTCAATTTTCAAT 180  
 QY 666 TTCTTTGGTGGCTTAGTTTCAATGATTTTAAATGAGAACATTAAGAAAGATATGCTCGG 725  
 Db 181 TTCTTTGGTGGCTTAGTTTCAATGATTTTAAATGAGAACATTAAGAAAGATATGCTCGG 240  
 QY 726 TACAGTAAAGAGAGAAATGATGATGATGAGACCTAGGAGATGAATATGATGGATGG 785  
 Db 241 TACAGTAAAGAGAGAAATGATGATGATGAGACCTAGGAGATGAATATGATGGATGG 300  
 QY 786 AAACAGGTGCATGAGATGATTTAGACCATCAAGTACCCACCTGATATTTTCTCTCTG 845  
 Db 301 AAACAGGTGCATGAGATGATTTAGACCATCAAGTACCCACCTGATATTTTCTCTCTG 360

Qy	846	ATTGGTTCTGGATCTCAGATATTCTTCTGTCTCTCATCGTTATTATTGTCGAATGATA	905
Dh	161	ATTGGTTCTGGATCTCAGATATTCTTCTGTCTCTCATCGTTATTATTGTCGAATGATA	420

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RESULT 4
US-09-513-999C-3708
; Sequence 3708, Application US/09513999C
; Patent No. 6783961
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Duclert, A.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.

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; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: 73
; OTHER INFORMATION: Xaa=Ala or Asp
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: 74
; OTHER INFORMATION: Xaa=Lys or Thr
US-09-513-999C-3708

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RESULT 5
US-09-270-767-679/c
; Sequence 679, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0

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[illegible]

QY 606 TCCTTTTTCACATCGGATTCATTTGTTTTCATTTTCAATCTCTTCATGATGGTATC 665  
 Db 705 AACTTCTTCCAGCACAGGATCCACTGGTTTCAGCATCTTCACAGCTTCATGATGTCATC 646  
 QY 666 TTCTGGTGGGCTTAGTTCATGATTTTATGATGAGAACATTAAGAAAGATTAATGCTCGG 725  
 Db 645 TTCTGGTGGGCTTAGTTCATGATTTTATGATGAGAACATTAAGAAAGATTAATGCTCGG 586  
 QY 726 TACAGTAAAGAGGAAGAAATGGATGATGATGATGATGATGATGATGATGATGATGATG 785  
 Db 585 TACAGTAAAGAGGAAGAAATGGATGATGATGATGATGATGATGATGATGATGATGATG 526  
 QY 786 AAACAGGTGATGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 845  
 Db 525 AAGCAGGTGATGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 466  
 QY 846 ATTGGTTCGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 905  
 Db 465 GTGGCGGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 406  
 QY 906 GAAGATTTATATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 965  
 Db 405 GGTGAATTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 346  
 QY 966 ACCTCTCAGTGAATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1025  
 Db 345 ACCTCAGTGAATGATGATGATGATGATGATGATGATGATGATGATGATGATG 286  
 QY 1026 TGGATAAAGCAGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1085  
 Db 285 TGGATCAGCAGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 226  
 QY 1086 TTCTTCATCAATTCATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1145  
 Db 225 TTCTTCATCAATTCATGATGATGATGATGATGATGATGATGATGATGATGATGATG 166  
 QY 1146 ATGGTGGCGGTTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1205  
 Db 165 ATGGTGGCGGTTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 106  
 QY 1206 ATACTTGGCGGAATCTGATGATGATGATGATGATGATGATGATGATGATGATGATG 1265  
 Db 105 GTGCTGGCGGCAATCTGATGATGATGATGATGATGATGATGATGATGATGATGATG 46  
 45 CGACCCATTCGGAAGAGAGTGTATGATGATGATGATGATGATGATGATGATGATGATG 1

RESULT 6

US-09-270-767-15961/c  
 ; Sequence 15961, Application US/09270767  
 ; Patent No. 6703491  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Homburger et al.  
 ; TITLE OF INVENTION: Nucleic acids and proteins of *Drosophila melanogaster*  
 ; FILE REFERENCE: File Reference: 7326-094  
 ; CURRENT APPLICATION NUMBER: US/09/270,767  
 ; CURRENT FILING DATE: 1999-03-17  
 ; NUMBER OF SEQ ID NOS: 62517  
 ; SOFTWARE: Patent In Ver. 2.0  
 ; SEQ ID NO 15961  
 ; LENGTH: 771  
 ; TYPE: DNA  
 ; ORGANISM: *Drosophila melanogaster*  
 ; US-09-270-767-15961

Query Match 20.5%; Score 369.8; DB 4; Length 771;  
 Best Local Similarity 67.7%; Pred. No. 5.8e-92;  
 Matches 518; Conservative 0; Mismatches 247; Indels 0; Gaps 0;  
 QY 546 GTAAATGGAAGAGTGTGATGATGATGATGATGATGATGATGATGATGATGATGATG 605

Db 765 GTCAACTGGAAGCCAGCAAGTGGAGTTCAAGATCGATTCCAGCAAGTACCTGGATCCC 706  
 QY 606 TCCTTTTTCACATCGGATTCATTTGTTTTCATTTTCAATCTCTTCATGATGGTATC 665  
 Db 705 AACTTCTTCCAGCACAGGATCCACTGGTTTCAGCATCTTCACAGCTTCATGATGTCATC 646  
 QY 666 TTCTGGTGGGCTTAGTTCATGATTTTATGATGAGAACATTAAGAAAGATTAATGCTCGG 725  
 Db 645 TTCTGGTGGGCTTAGTTCATGATTTTATGATGAGAACATTAAGAAAGATTAATGCTCGG 586  
 QY 726 TACAGTAAAGAGGAAGAAATGGATGATGATGATGATGATGATGATGATGATGATGATG 785  
 Db 585 TACAGTAAAGAGGAAGAAATGGATGATGATGATGATGATGATGATGATGATGATGATG 526  
 QY 786 AAACAGGTGATGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 845  
 Db 525 AAGCAGGTGATGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 466  
 QY 846 ATTGGTTCGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 905  
 Db 465 GTGGCGGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 406  
 QY 906 GAAGATTTATATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 965  
 Db 405 GGTGAATTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 346  
 QY 966 ACCTCTCAGTGAATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1025  
 Db 345 ACCTCAGTGAATGATGATGATGATGATGATGATGATGATGATGATGATGATG 286  
 QY 1026 TGGATAAAGCAGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1085  
 Db 285 TGGATCAGCAGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 226  
 QY 1086 TTCTTCATCAATTCATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1145  
 Db 225 TTCTTCATCAATTCATGATGATGATGATGATGATGATGATGATGATGATGATGATG 166  
 QY 1146 ATGGTGGCGGTTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1205  
 Db 165 ATGGTGGCGGTTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 106  
 QY 1206 ATACTTGGCGGAATCTGATGATGATGATGATGATGATGATGATGATGATGATGATG 1265  
 Db 105 GTGCTGGCGGCAATCTGATGATGATGATGATGATGATGATGATGATGATGATGATG 46  
 QY 1266 CGTCTATACCGAGAGAAATGGTTTCATGAGCGCTGCGGTTATT 1310  
 Db 45 CGACCCATTCGGAAGAGAGTGTATGATGATGATGATGATGATGATGATGATGATGATG 1

RESULT 7

US-09-513-999C-3502  
 ; Sequence 3502, Application US/09513999C  
 ; Patent No. 6783961  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Dumas Milne Edwards, J.B.  
 ; APPLICANT: Duclert, A.  
 ; APPLICANT: Giordano, J.Y.  
 ; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.  
 ; Patent No. 6783961  
 ; FILE REFERENCE: 59.US2.REG  
 ; CURRENT APPLICATION NUMBER: US/09/513,999C  
 ; CURRENT FILING DATE: 2000-02-24  
 ; PRIOR APPLICATION NUMBER: US 60/122,487  
 ; PRIOR FILING DATE: 1999-02-26  
 ; NUMBER OF SEQ ID NOS: 36681  
 ; SOFTWARE: Patent.pm  
 ; SEQ ID NO 3502  
 ; LENGTH: 433  
 ; TYPE: DNA  
 ; ORGANISM: *Homo sapiens*  
 ; FEATURE:

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; NAME/KEY: CDS
; LOCATION: 100...432
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 86
; OTHER INFORMATION: m=a or c
US-09-513-999C-3502

Query Match      20.3%; Score 364.8; DB 4; Length 433;
Best Local Similarity 98.9%; Pred. No. 1e-90; 3; Indels 0; Gaps 0;
Matches 366; Conservative 1; Mismatches 0;

QY 60 CACACGTATCAAGATAAAGAGAAAGTTGTCTTATGGATGAATACTGTGGCCCTTACCAT 119
Db 64 CAGCAGTATCAAGATAAAGAGAGAGTTGTCTTATGGATGAATACTGTGGCCCTTACCAT 123
QY 120 AATGTCNAGAAACATATAAGTACTTTTCACTTCCATTCTGTGGGGTCAAAAAAAGT 179
Db 124 AATGTCNAGAAACATATAAGTACTTTTCACTTCCATTCTGTGGGGTCAAAAAAAGT 183
QY 180 ATCAGTCATTACCATGAACCTCTGGGAGAACACTTCAAGGGGTTGAATTGGAATTTAGT 239
Db 184 ATCAGTCATTACCATGAACCTCTGGGAGAACACTTCAAGGGGTTGAATTGGAATTTAGT 243
QY 240 GGTCTGGATATAAATTTAAAGATGATGTGATGCCAGCCACTTACTCTGGAATTTGATTA 299
Db 244 GGTCTGGATATAAATTTAAAGATGATGTGATGCCAGCCACTTACTCTGGAATTTGATTA 303
QY 300 GATTAAGAAAAAGAGATGATGCTTTGTATATGCCATAAAAAATCATTTACTGTACCAGATG 359
Db 304 GATTAAGAAAAAGAGATGATGCTTTGTATATGCCATAAAAAATCATTTACTGTACCAGATG 363
QY 360 TACATAGATATTTACCAATATGGGATTTTCTGGTGAAGCTGATGAAATGGAGAAGAT 419
Db 364 TACATAGATATTTACCAATATGGGATTTTCTGGTGAAGCTGATGAAATGGAGAAGAT 423
QY 420 TACTATCTTT 429
Db 424 TACTATCTTT 433

RESULT 8
US-09-270-767-28434
; Sequence 28434, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 28434
; LENGTH: 571
; TYPE: DNA
; ORGANISM: Drosophila melanogaster
US-09-270-767-28434

Query Match      12.8%; Score 230.8; DB 4; Length 571;
Best Local Similarity 72.7%; Pred. No. 9.9e-54;
Matches 298; Conservative 0; Mismatches 112; Indels 0; Gaps 0;

QY 1330 TACCTTTTGGTTCAATCTTTTAAATGTAATTTTCACTTCCACCTCTTTCTGGGCATATA 1389
Db 1 TCCCTTTTGGATCCATCTTTCATTGAGATGATCTTCACTTCCCTCTTCTGGGGCTACA 60
QY 1390 AGATCTATTATGCTATGCTTTCATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1449
Db 61 AGATCTATTATGCTATGCTTTCATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
QY 1450 TCTGTGTGACTATTTGTGTGCAATATTTTCTACTAAATGCAGAAATACCGTGGCAAT 1509
Db 121 TGTGGCTCACCATCGTGTGCACCTACTTCTCTGCTAAATGCCGAGGATACCGATGGCAGT 180
QY 1510 GGACAGATTTTCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1569
Db 181 GGACAGATTTTCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 240
QY 1570 ACTATTTTTCAAAAACAAAGATGATGCTTAAATTTTCAACATCATTTTACTTTGGATATA 1629
Db 241 ACTTCTTCTTTAAACCAAAATGTTTGGTCTGTTTCCAAAACGGCTTCTACTTTGGCTACA 300
QY 1630 TGGCGGTATTTAGCACAGCCTTTGGGGATAATGTTGGAGCGATTTGTTACATGGGAACAA 1689
Db 301 TGGCACTCTTTCAGCGCGCTTGGGCAATTAATCGGGCACCGCTGCTGCTGCTGCTGCTGCTG 360
QY 1690 GTCCCTTTTGTCCGAAAAATCTATATCTATTAATGTGAAAAATGACTAGAGACCC 1739
Db 361 ATCTCTTTTGGCGAAAAATCTATTTCCAAATGTGAAAAATAGACTAAGAGCCC 410

RESULT 10
US-08-959-004-6
; Sequence 6, Application US/08959004

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Db 121 TGTGGCTCACCATCGTGTGCACCTACTTCTCTGCTAAATGCCAGGATTACCGATGGCAGT 180
QY 1510 GGACAAAGTTTCTCTCTGCTGCATCAACTGCAATCTATGTTTACATGATTTCTTTTACT 1569
Db 181 GGACAGATTTTTCATGCTGCGGGCTCCAGCTGATTTACGTGTAGCCCTATTTCTCTTCTATT 240
QY 1570 ACTATTTTTCAAAAACAAAGATGATGCTTAAATTTTCAACATCATTTTACTTTGGATATA 1629
Db 241 ACTTCTTCTTTAAACCAAAATGTTTGGTCTGTTTCCAAAACGGCTTCTACTTTGGCTACA 300
QY 1630 TGGCGGTATTTAGCACAGCCTTTGGGGATAATGTTGGAGCGATTTGTTACATGGGAACAA 1689
Db 301 TGGCACTCTTTCAGCGCGCTTGGGCAITTAATCTGCGGCACCGCTGCTGCTGCTGCTGCTG 360
QY 1690 GTCCCTTTTGTCCGAAAAATCTATATCTATTAATGTGAAAAATGACTAGAGACCC 1739
Db 361 ATCTCTTTTGGCGAAAAATCTATTTCCAAATGTGAAAAATAGACTAAGAGCCC 410

RESULT 9
US-09-270-767-12633
; Sequence 12633, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12633
; LENGTH: 1151
; TYPE: DNA
; ORGANISM: Drosophila melanogaster
US-09-270-767-12633

Query Match      12.8%; Score 230.8; DB 4; Length 1151;
Best Local Similarity 72.7%; Pred. No. 1.5e-53;
Matches 298; Conservative 0; Mismatches 112; Indels 0; Gaps 0;

QY 1330 TACCTTTTGGTTCAATCTTTTAAATGTAATTTTCACTTCCACCTCTTTCTGGGCATATA 1389
Db 1 TCCCTTTTGGATCCATCTTTCATTGAGATGATCTTCACTTCCCTCTTCTGGGGCTACA 60
QY 1390 AGATCTATTATGCTATGCTTTCATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1449
Db 61 AGATCTATTATGCTATGCTTTCATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
QY 1450 TCTGTGTGACTATTTGTGTGCAATATTTTCTACTAAATGCAGAAATACCGTGGCAAT 1509
Db 121 TGTGGCTCACCATCGTGTGCACCTACTTCTCTGCTAAATGCCGAGGATACCGATGGCAGT 180
QY 1510 GGACAGATTTTCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1569
Db 181 GGACAGATTTTCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 240
QY 1570 ACTATTTTTCAAAAACAAAGATGATGCTTAAATTTTCAACATCATTTTACTTTGGATATA 1629
Db 241 ACTTCTTCTTTAAACCAAAATGTTTGGTCTGTTTCCAAAACGGCTTCTACTTTGGCTACA 300
QY 1630 TGGCGGTATTTAGCACAGCCTTTGGGGATAATGTTGGAGCGATTTGTTACATGGGAACAA 1689
Db 301 TGGCACTCTTTCAGCGCGCTTGGGCAITTAATCGGGCACCGCTGCTGCTGCTGCTGCTGCTG 360
QY 1690 GTCCCTTTTGTCCGAAAAATCTATATCTATTAATGTGAAAAATGACTAGAGACCC 1739
Db 361 ATCTCTTTTGGCGAAAAATCTATTTCCAAATGTGAAAAATAGACTAAGAGCCC 410

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Patent No. 6197543  
 GENERAL INFORMATION:  
 APPLICANT: Hillman, Jennifer L.  
 APPLICANT: Yue, Henry  
 APPLICANT: Corley, Neil C.  
 APPLICANT: Lal, Preeti  
 APPLICANT: Shah, Purvi  
 APPLICANT: Kaser, Matthew  
 TITLE OF INVENTION: HUMAN VESICLE MEMBRANE PROTEIN-LIKE  
 TITLE OF INVENTION: PROTEINS  
 NUMBER OF SEQUENCES: 11  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Incyte Pharmaceuticals, Inc.  
 STREET: 3174 Porter Drive  
 CITY: Palo Alto  
 STATE: CA  
 COUNTRY: USA  
 ZIP: 94304  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Diskette  
 COMPUTER: IBM Compatible  
 OPERATING SYSTEM: DOS  
 SOFTWARE: ParSeq for Windows Version 2.0  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/959,004  
 FILING DATE: Herewith  
 CLASSIFICATION: 514  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER:  
 FILING DATE:  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Billings, Lucy J.  
 REGISTRATION NUMBER: 36,749  
 REFERENCE/DOCKET NUMBER: PF-0414 US  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 650-855-0555  
 TELEFAX: 650-845-4166  
 TELEX:  
 INFORMATION FOR SEQ ID NO: 6:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 2805 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 IMMEDIATE SOURCE:  
 LIBRARY: ADRETUT06  
 CLONE: 2822412  
 US-08-959-004-6

Query Match 12.68; Score 227.6; DB 3; Length 2805;  
 Best Local Similarity 51.9%; Pred. No. 1.8e-52;  
 Matches 596; Conservative 0; Mismatches 534; Indels 18; Gaps 3;  
 592 AATATCTTGATCCGTCCTCTTTTCAACATCGGATTCATTGGTTTCAATTTTCAACTCCT 651  
 1044 ACTATATCTGGAGTCTATGCCCTCATACCCACATTCAGTGGTTAGCAATTAGATCCC 1103  
 652 TCATGATGGTGAATCTTCTGGTGGCTTAGTTCAATGATTTTAAATGAGAACATTAGAA 711  
 1104 TGGTCATTTGTTCTTCTTATCTCGAATGGTAGCTATGATTTATACGGACACTGCACA 1163  
 712 AAGATTATGTCGGTACAGTAAGAGGAGAAATGGATGGATATGGATAGAGACTAGGAG 771  
 1164 AAGATTATGCTAGATATATACATGAGTCTACGGAAGATGCCAG-----G 1211  
 772 ATGAATATGGATGGAACAGGTGTCATGGATGATTTTAGACCATCAAGTCAACCCACTGA 831  
 1212 AAGAAATTTGGCTGAAACTTTGTTCAATGATATATTCGTCCTCCAGAAAGGATGC 1271  
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 1272 TGCTATCAGTCTTCTTAGGATCCGGACACAGATTTTAAATATGACCTTTGTGACTCTAT 1331

QY 892 TTCTTGCATGATAGAAATTTTATATCTAGAGGGGATCAATGCTCAGTAC---AGCCA 948  
 DB 1332 TTTTCGCTTGCCTGGGATTTTGTACCTGCGCAACCGAGAGCGCTGATGACGCTGCTG 1391  
 QY 949 TATTTGCTATGCTGCTAGCTCTCAGTGAATGGTTTATTTTGGAGAACTCTGTATGCTA 1008  
 DB 1392 TGGTCTGTGGGTGCTGCTGGGCACCCCTGCGAGCTATGTTGCTGCCAATTTCTATAAT 1451  
 QY 1009 GACAAGGAGGAGAGATGGATAAAGCAGATGTTTATTTGGGCAATTCCTTATCCCACTA 1068  
 DB 1452 CCTTTGGAGGTGAGAAGTGGAAAAAAATGTTTATTAACATCAATTTCTTGTCTGGGA 1511  
 QY 1069 TGGTGTGTCGCACTGCTCTTCTTCATCAATTTTCATAGCCATTTTATACCATGCTCAAG 1128  
 DB 1512 TTGTATTTGCTGACTTCTTTTAAATGAATCTGATCTCTGGGGGAGAAGATCTTCAGCAG 1571  
 QY 1129 CCATTCCTTTTGGAAACAATGGTGGCGGTTTGTGATCTGTGTTTGTGTTTATCTTCTC 1188  
 DB 1572 CTATTCCTTTTGGACACTGGTTGCCATATTTGGCCCTTTGGTTCTGCATATCTGTGCTC 1631  
 QY 1189 TAAATCTTGTGGTACAAATCTTGGCGAAATCTGTAGGTGAGCCCACTTCTTCTGTG 1248  
 DB 1632 TGACGTTTATTTGCTGCTACTTTTGGTTTAAAGAAGATGCCATTTGAACAC---CCAGTTC 1688  
 QY 1249 GTGTCAATGCTGCTGCTGCTCTATACCGGAGAAAAATGTTTCATGGAGCCTGGGTTA 1308  
 DB 1689 GAACCAATCAGATTCACGTCAGATTCCTGAACAGCTGTTCTACAGAGCCCTTGCCTG 1748  
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 DB 1749 GTATTATCATGGAGGGATTTTGGCCTTTGGCTGCAATCTTTATACAACTTTTCTTCAATC 1808  
 QY 1369 TCACGTCCTTCTGGGCATATAGATCTATATGCTATGCTTATGGCTTCATGCTGGTGGCTGG 1428  
 DB 1809 TGAATAGTATTTGGTCACACAGATGTTATCAATTTGGCTTTCTTATTTCTGGTGGTTA 1868  
 QY 1429 TTATCTGTGCAATTTGACTGTCTGTGACTATTTGTGTCACATATTTTCTTACTAAATG 1488  
 DB 1869 TCAATTTTGGTTATTACTGTTCTGAAGCAACTATATCTTCTTGTCTATTTCCACCTATGTG 1928  
 QY 1489 CAGAAGATTACCGTGGCAATGGACAAGTTTCTCTCTGCTGCATCACTCAATGCTGAATCTATG 1548  
 DB 1929 CAGAGGATTAATTTGGCAATGGCGTTTCAATTCCTTTACGAGTGGCTTTTACTCAGTTTAT 1988  
 QY 1549 TTTACATGTAATCTCTTTTACTACTATTTTTCAAAAAAGATGATGGCTTATTTTCAAA 1608  
 DB 1989 TCTTAATCTAGCAGTACACTACTTCTTTTCAAACTGCAGATCACGGGAACAGCA 2048  
 QY 1609 CATCATTTTCTTTGGATATATGGCGGTATTTAGCACAGCCTTGGGGGATAATGTTGGAG 1668  
 DB 2049 CAAATCTGTACTTTGTTTATACCATGATAATGGTTTGTATCTTCTTTTACAGGAA 2108  
 QY 1669 CGATTGGTTACATGGGAACAAGTGGCTTTTCCGAAAAATCTATCTAATGTAATAATG 1728  
 DB 2109 CAAATTTGGCTTCTTTGCAATGCTTTTGGTTTGTACCAAAATATACAGTGTGGTGAAGTTG 2168  
 QY 1729 ACTAGAGA 1736  
 DB 2169 ACTGAAGA 2176

RESULT 11  
 US-09-270-767-14715  
 ; Sequence 14715, Application US/09270767  
 ; Patent No. 6703491  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Homburger et al.  
 ; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster  
 ; FILE REFERENCE: File Reference: 7326-094  
 ; CURRENT APPLICATION NUMBER: US/09/270,767  
 ; CURRENT FILING DATE: 1999-03-17  
 ; NUMBER OF SEQ ID NOS: 62517  
 ; SOFTWARE: PatentIn Ver. 2.0

Query Match 9.0%; Score 161.2; DB 4; Length 995;  
Best Local Similarity 59.3%; Pred. No. 2e-34;  
Matches 274; Conservative 0; Mismatches 188; Indels 0; Gaps 0;

QY 31 TGCCCCGACCCGGCGGACGAGCACAACAGTATCAAGTAAAGAGGAAGTGTCT 90  
Db 532 TGTCACTCTCCAGCGAGATGAGCACAATCACAAGTACAATGACCGGGAGGAGTGTATC 591  
QY 91 TATGATGAATACCTGTTGGCCCTTACCATAATCGTCAAGAAACATATAAGTACTTTTCAC 150  
Db 592 TGTGGATGAACACCGTGGCCCGTACCACAAATCGCAGGAGACGTACGCGTACTTCTCTC 651  
QY 151 TTCATTCTGTGTGGGTCTCAAAAAAGTATCACTATTAACATGAACTCTGGGAGAAG 210  
Db 652 TCCCTTTTGCAGTGGCCAAAGTCTCGATATCCCACTACCACGACGCTGAGCGAGG 711  
QY 211 CACTTCAAGGGGTGAATGGAATTTAGTGTCTGGATTAATTTAAAGATGATGTA 270  
Db 712 CGCTGCAAGAGTCAAGTGGTTCAGTGGCTACGAGATGGAGTTCAAGAGCGACGCC 771  
QY 271 TCCAGGCCACTTACTGTGAAATTCGATTTAGATAAAGAAAGAGAGATGCAATTTGTATATG 330  
Db 772 CCAATCGGTCTATCTGCATGTCTACCTTTCGAGGAGGAGCGCCCAAGCATTCACCTATG 831  
QY 331 CCATAAAAATCATTTCTGGTACAGATGTCATAGATGATTTACCAATATGGGTATTG 390  
Db 832 CCGTGAAGACGAGTACTGTGTTACCAAAATGTACATCGATGGACTGCCCATTTGGGGAAG 891  
QY 391 TTGGTGGGCTGATGAAATCGAGAAGATTACTATCTTTGACCTATAAAAAAAGCTTGA 450  
Db 892 TCGGTGAGCGGACGAGCGCATGCGAAGTACTATCTTCAACCCACAGAGTTCGACA 951  
QY 451 TAGGTTTTAATGGAATCGAATTTGTGATGTTAATCTAACTA 492  
Db 952 TCGGTACAATGGCCAGCAAAATCGTGATATCAACCTGACCA 993

RESULT 12  
US-09-248-796A-6208  
; Sequence 6208, Application US/09248796A  
; Patent No. 6747137  
; GENERAL INFORMATION:  
; APPLICANT: Keith Weinstock et al  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN  
; FILE REFERENCE: 107196.132  
; CURRENT APPLICATION NUMBER: US/09/248.796A  
; CURRENT FILING DATE: 1999-02-12  
; PRIOR APPLICATION NUMBER: US 60/074,725  
; PRIOR FILING DATE: 1998-02-13  
; PRIOR APPLICATION NUMBER: US 60/096,409  
; PRIOR FILING DATE: 1998-08-13  
; NUMBER OF SEQ ID NOS: 28208  
; SEQ ID NO 6208  
; LENGTH: 726  
; TYPE: DNA  
; ORGANISM: Candida albicans  
US-09-248-796A-6208  
Query Match 7.4%; Score 132.8; DB 4; Length 726;  
Best Local Similarity 51.0%; Pred. No. 1.2e-26;  
Matches 367; Conservative 0; Mismatches 347; Indels 6; Gaps 2;

QY 1014 GCAGGAGAGATGATGAAGCAGATGTTTATTTGGCGATTCCTTATCCAGCTATGTTG 1073  
Db 13 GGTGTGACAAATTGGAATTTGAATATGTTTGTACACCACTTTTAGTACCAGGATTTTG 72

RESULT 13  
US-09-313-294A-2292  
; Sequence 2292, Application US/09313294A  
; Patent No. 6476212  
; GENERAL INFORMATION:  
; APPLICANT: Lalgudi, Raghunath V.  
; APPLICANT: Ito, Laura Y.  
; APPLICANT: Sherman, Bradley K.  
; TITLE OF INVENTION: POLYNUCLEOTIDES AND POLYPEPTIDES DERIVED FROM CORN EAR  
; FILE REFERENCE: PL-0017 US  
; CURRENT APPLICATION NUMBER: US/09/313,294A  
; CURRENT FILING DATE: 1999-05-14  
; NUMBER OF SEQ ID NOS: 7600  
; SOFTWARE: PERL Program  
; SEQ ID NO 2292  
; LENGTH: 262  
; TYPE: DNA  
; ORGANISM: Zea mays  
; FEATURE:  
; NAME/KEY: misc feature  
; OTHER INFORMATION: Incyte ID No. 6476212 700552439H1  
US-09-313-294A-2292  
Query Match 5.8%; Score 101; DB 4; Length 262;  
Best Local Similarity 68.4%; Pred. No. 3.8e-18;  
Matches 154; Conservative 0; Mismatches 70; Indels 1; Gaps 1;

QY 1450 TCTGTCTGACTATTGTGTGCACATATTTTCTACTAAATGCAGAAGATTACCGGTGGCAAT 1509

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Db 39 TCTGGTCACTATTGTGGTACTTATTTCTTGTGACGCGAATACCAATTGGCAAT 98
QY 1510 GGACAAGTTTCTCTCTGTCGATCACTGCAATCTATGTTTACATGATTCCTTTTACT 1569
Db 99 GGACGTGGTTTCTTCTGTCAGCGTCAACCGCTCTGTAGTGATCTGTACTCCATCTACT 158
QY 1570 ACTATTTTTCAAAACAAGATGTATGCTTATTTTCAAAACATCATTTTACTTTGGATATA 1629
Db 159 ACTACCATGTGAAGACAAGATGTACGGCTTCTCCAGACAGTTTCTATTTGGGTACA 218
QY 1630 TGGCGGTATTAGCACAGCCCTGGGATAATGTGTGAGCGATTG 1674
Db 219 CGCTGATTTCTGC-CTGGCCTAGGCATCTTTGTGGAGCTATTG 262
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## RESULT 14

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US-09-385-982-530/c
; Sequence 530, Application US/09385982
; Patent No. 6262334
; GENERAL INFORMATION:
; APPLICANT: ENDEGE, WILSON O., ET AL.
; TITLE OF INVENTION: NOVEL HUMAN GENES AND GENE EXPRESSION
; FILE REFERENCE: CCNA-260XX
; CURRENT APPLICATION NUMBER: US/09/385,982
; CURRENT FILING DATE: 1999-08-30
; EARLIER APPLICATION NUMBER: 09/328,111
; EARLIER FILING DATE: 1999-06-08
; EARLIER APPLICATION NUMBER: 60/117,393
; EARLIER FILING DATE: 1999-01-27
; EARLIER APPLICATION NUMBER: 60/098,639
; EARLIER FILING DATE: 1998-08-31
; NUMBER OF SEQ ID NOS: 544
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 530
; LENGTH: 769
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(769)
; OTHER INFORMATION: n = A,T,C or G
US-09-385-982-530
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Query Match 5.1%; Score 91.6; DB 3; Length 769;
Best Local Similarity 57.0%; Pred. No. 2.7e-15;
Matches 166; Conservative 0; Mismatches 125; Indels 0; Gaps 0;

QY 1261 TGCTCTGCTATACCGGAGAAAATGGTTTCATGGAGCCCTGCGGTATTGTTGCTCG 1320
Db 308 TCACNGTCAGATTCCTGGAACAGTCGTTCTACACGAAGCCCTTGCCTGGTATTATCATGG 249

QY 1321 GTGGAATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTTTCATCTTCACGCTTTTCT 1380
Db 248 GAGGATTTTGGCCCTTTGGCTGCATCTTTATACAACTTTTCTTCATTCGANTAGTATT 189

QY 1381 GGCAATATAGACTATTATGTCTATGGCTTCATGCTGATGCTGGTCTGGTTATCCTGTGCA 1440
Db 188 GGTACACACAGATGATATCATGTTTGGCTTCTATTTCTGGTGTATATCATTTTGGTTA 129

QY 1441 TTGTGACTGTCTGTGCTACTATTGTGTGCACATATTTTCTACTAAATGCAGAGATTACC 1500
Db 128 TTACCTGTTCTGAAGCAACTATACTCTTTTGCTATTTTCCACCTATGTGCAGAGATTATC 69

QY 1501 GTGGGCAATGCACAAGTTTCTCTCTGCTGCATCAACTGCAATCTATGTTT 1551
Db 68 ATTGGCAATGGCGTTTCATCTCTTACAGATGGCTTTACTGAGTTTATTCTT 18
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## RESULT 15

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US-09-702-705-1002/c
; Sequence 1002, Application US/09702705
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; Patent No. 6504010
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; APPLICANT: Fan, Liqun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.478C14
; CURRENT APPLICATION NUMBER: US/09/702,705
; NUMBER OF SEQ ID NOS: 1833
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1002
; LENGTH: 302
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-702-705-1002

Query Match 3.6%; Score 64.6; DB 4; Length 302;
Best Local Similarity 56.2%; Pred. No. 4.4e-08;
Matches 149; Conservative 0; Mismatches 104; Indels 12; Gaps 1;

QY 599 TGATCGTCCCTTTTTCACATCGGATTTCATTTGTTTCAATTTTCAACTCCTTCATGAT 658
Db 253 TTACCTGACCATGAGTGACGTCAGATCCAGATCCACTGGTTTCTATCATTAACCTCGTTGTT 194

QY 659 GGTGATCTTCTTGGTGGGCTTAGTTTCAATGATTTTAATGAGAACATTAAGAAAAAGATTA 718
Db 193 GGTCTTCTTCTGTCAGGTATCCTCGCATGATTTATCATTCGGACCTCCGGAAGGACAT 134

QY 719 TCCTCGGTACAGTAAAGAGGAGAAATGGATGATATGATAGACCTAGGAGATGAATA 778
Db 133 TGCCAACTACACAAGAGGAGATGACATTGA-----AGACACCATGGAGAGTC 86

QY 779 TGGATGGAACACAGGTGCGATGGAGATGATTTAGACCATCAAGTCACCCACTGATATTTTC 838
Db 85 TGGGTGGAAGTTGGTGCACGGGACGCTCTTCAGGCCCCCCCAGTACCCCATGATCCTCAG 26

QY 839 CTCTCTGATTTGTTCTGGATGTCAG 863
Db 25 CTCCCTGTGGGCTCAGGCATTTCAG 1
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Job time : 165.116 secs



GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

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2	1800	100.0	4024	14 US-10-198-846-10005
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4	1794.4	99.7	3370	16 US-10-616-263-25
5	1753	97.4	3076	9 US-09-915-582-29
6	1753	97.4	3076	15 US-10-277-802-29
7	1709	94.9	3389	15 US-10-205-219-122
8	1011.6	56.2	6197	16 US-10-062-674-1697
9	716.4	39.8	1070	16 US-09-264-237-1414
10	619.6	34.4	1867	9 US-09-915-582-13
11	619.6	34.4	1867	15 US-10-277-802-13
12	583.6	32.4	2461	18 US-10-425-115-140808

13	581	32.3	2355	18	US-10-739-930-4365	Sequence 4365, Ap
14	570	31.7	2406	17	US-10-437-963-14430	Sequence 14430, A
15	568.8	31.6	1899	17	US-10-437-963-19405	Sequence 39405, A
16	567.8	31.5	2838	18	US-10-425-115-140319	Sequence 140319, A
17	562.4	31.2	2152	17	US-10-767-701-12720	Sequence 12720, A
18	547.4	30.4	2039	16	US-10-425-114-26742	Sequence 26742, A
19	547.4	30.4	2068	18	US-10-425-115-101961	Sequence 101961, A
20	537.8	29.9	560	16	US-10-242-535A-2630	Sequence 2630, Ap
21	537.8	29.9	560	16	US-10-085-783A-2630	Sequence 2630, Ap
22	536.4	29.8	1713	9	US-09-887-576-809	Sequence 809, App
23	506	28.1	1803	9	US-09-887-576-82	Sequence 812, App
24	502	27.9	1866	9	US-09-887-576-794	Sequence 794, App
25	474.4	26.4	1535	18	US-10-425-115-21677	Sequence 21677, A
26	462.4	25.7	2316	17	US-10-437-963-658	Sequence 658, App
27	416.4	23.1	419	10	US-09-918-995-3956	Sequence 3956, Ap
28	409.6	22.8	497	11	US-09-969-034-1724	Sequence 1724, Ap
29	406.2	22.6	459	15	US-10-062-874-445	Sequence 445, App
30	365.6	20.3	455	15	US-10-002-831C-133	Sequence 133, App
31	365.6	20.3	455	15	US-10-002-831C-134	Sequence 134, App
32	300.8	16.7	731	16	US-10-333-184-388	Sequence 388, App
33	300.8	16.7	2032	18	US-10-425-115-21679	Sequence 21679, A
34	296.4	16.5	2748	16	US-10-424-599-103451	Sequence 103451, A
35	294.8	16.4	1033	16	US-10-425-114-16392	Sequence 16392, A
36	273.8	15.2	529	14	US-10-198-846-11456	Sequence 11456, A
37	262.6	14.6	600	17	US-10-021-323-3365	Sequence 3365, Ap
38	256.4	14.2	2176	16	US-10-424-599-31527	Sequence 31527, A
39	250.6	13.9	2314	17	US-10-767-701-13950	Sequence 13950, A
40	248.4	13.8	673	14	US-10-198-846-2790	Sequence 2790, Ap
41	245.8	13.7	2101	16	US-10-425-114-3633	Sequence 3633, Ap
42	244.2	13.6	3097	18	US-10-425-115-17630	Sequence 17630, A
43	242	13.4	2099	17	US-10-437-963-18458	Sequence 18458, A
44	237.8	13.2	2095	16	US-10-425-114-5124	Sequence 5124, Ap
45	235.4	13.1	1346	17	US-10-767-795-636	Sequence 636, App

#### ALIGNMENTS

#### RESULT 1

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US-09-814-353-21837
; Sequence 21837, Application US/09814353
; Publication No. US20030165831A1
; GENERAL INFORMATION:
; APPLICANT: Lee, John
; APPLICANT: Thompson, Pamela
; APPLICANT: Lillie, James
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR
; IDENTIFICATION, ASSESSMENT, PREVENTION, AND
; THERAPY OF OVARIAN CANCER
; TITLE OF INVENTION:
; FILE REFERENCE: MRI-006B
; CURRENT APPLICATION NUMBER: US/09/814,353
; CURRENT FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: US 60/191,031
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: US 60/207,124
; PRIOR FILING DATE: 2000-05-25
; PRIOR APPLICATION NUMBER: US 60/211,940
; PRIOR FILING DATE: 2000-06-15
; PRIOR APPLICATION NUMBER: US 60/216,820
; PRIOR FILING DATE: 2000-07-07
; PRIOR APPLICATION NUMBER: US 60/220,661
; PRIOR FILING DATE: 2000-07-25
; PRIOR APPLICATION NUMBER: US 60/257,672
; NUMBER OF SEQ ID NOS: 22037
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 21837
; LENGTH: 3508
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 1, 2, 3506, 3507, 3508
```

[illegible]

```

RESULT 2
US/10-198-846-10005
, Sequence 10005, Application US/10198846
, Publication No. US20030099974A1
, GENERAL INFORMATION:
, APPLICANT: Lillie, James
, APPLICANT: Xu, Yongyao
, APPLICANT: Wang, Youzhen
, APPLICANT: Steinmann, Kathleen
, TITLE OF INVENTION: NOVEL GENES, COMPO
, TITLE OF INVENTION: FOR IDENTIFICATION
, TITLE OF INVENTION: THERAPY OF BREAST
, FILE REFERENCE: MRI-049
, CURRENT APPLICATION NUMBER: US/10/198,
, CURRENT FILING DATE: 2002-07-18
, PRIOR APPLICATION NUMBER: 60/306,220
, PRIOR FILING DATE: 2001-07-18
, NUMBER OF SEQ ID NOS: 14084

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; SOFTWARE: fastSEQ for Windows Version 4.0
; SEQ ID NO 10005
; LENGTH: 4024
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE.
; NAME/KEY: misc_feature
; LOCATION: 1, 2, 4021, 4022, 4023, 4024
; OTHER INFORMATION: n = A,T,C or G
US-198-846-10005

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Query Match      100.0%; Score 1800; DB 14; Length 4024;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1800; Conservative 0; Mismatches 0; Indels 0;
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QY	1	CCGCGCGCTGTGGCTCTGCTGCTGCTGCCCGGACCCGGCGGACGAGCAGCAAC	60
Db	54	CCGCGCGCTGTGGCTCTGCTGCTGCTGCCCGGACCCGGCGGACGAGCAGCAAC	113
QY	61	ACCGTATCAAGATAAAGAGAAAGTCTCTTATGGAATGAATCTGTGGGCCCTACCAT	120
Db	114	ACCGTATCAAGATAAAGAGAAAGTCTCTTATGGAATGAATCTGTGGGCCCTACCAT	173
QY	121	ATCGTCAAGAAACATATAAGTACTTTTCACCTTCATTCGTGTGGGTCAAAAAAGTA	180
Db	174	ATCGTCAAGAAACATATAAGTACTTTTCACCTTCATTCGTGTGGGTCAAAAAAGTA	233
QY	181	TCAGTCAATACCATTGAAACTCTGGGAAGACACTTCAAGGGTGAATTCGAAATTAAGT	240
Db	234	TCAGTCAATACCATTGAAACTCTGGGAAGACACTTCAAGGGTGAATTCGAAATTAAGT	293
QY	241	GTCTGGATATTAATTTAAAGATGATGTGATCCAGGCACCTACTGTGAAATTCGATTAG	300
Db	294	GTCTGGATATTAATTTAAAGATGATGTGATCCAGGCACCTACTGTGAAATTCGATTAG	353
QY	301	ATAAGAAAAGAGAGATGCATTTGTATATGCCATAAAAAATCATCTACTGGTACCAGATGT	360
Db	354	ATAAGAAAAGAGAGATGCATTTGTATATGCCATAAAAAATCATCTACTGGTACCAGATGT	413
QY	361	ACATAGATGATTTACCAATATGGGGTATTTGTTGTGAGGCTGATGAAAAATGGAGAAGATT	420
Db	414	ACATAGATGATTTACCAATATGGGGTATTTGTTGTGAGGCTGATGAAAAATGGAGAAGATT	473
QY	421	ACTATCTTTGGACCTATAAAAAACCTTCAAAATAGGTTTTTAATGGAAAAATCGAAATCTTTCATG	480
Db	474	ACTATCTTTGGACCTATAAAAAACCTTCAAAATAGGTTTTTAATGGAAAAATCGAAATCTTTCATG	533
QY	481	TTAATCTAACTAGTGAAGAAAGTGAAACTGGTTCCAAATATCTAAAAATCCAGATGTCAT	540
Db	534	TTAATCTAACTAGTGAAGAAAGTGAAACTGGTTCCAAATATCTAAAAATCCAGATGTCAT	593
QY	541	ATTCAGTAAAAATGAAAAAGTCAGATGTGAAATTTGAAGATTCGATTTTGACAAATATCTTG	600
Db	594	ATTCAGTAAAAATGAAAAAGTCAGATGTGAAATTTGAAGATTCGATTTTGACAAATATCTTG	653
QY	601	ATCCGTCCTTTTTCACATCCGAATCATTCGGTTTTCAATTTTCAACTCCCTCAATGATGG	660
Db	654	ATCCGTCCTTTTTCACATCCGAATCATTCGGTTTTCAATTTTCAACTCCCTCAATGATGG	713
QY	661	TGATCTTCTTTGGGGCTTAGTTTCAATGATTTTTAATGAGAAACATTAAAGAAAAGATTATG	720
Db	714	TGATCTTCTTTGGGGCTTAGTTTCAATGATTTTTAATGAGAAACATTAAAGAAAAGATTATG	773
QY	721	CTCGGTACAGTAAAGAGAAAGAAATGGATGATATGGATAGAGACCTAGGAGATGAATATG	780
Db	774	CTCGGTACAGTAAAGAGAGAAAGAAATGGATGATATGGATAGAGACCTAGGAGATGAATATG	833
QY	781	GATCGAAAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCAACCCACTGATATTTTCCT	840
Db	834	GATCGAAAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCAACCCACTGATATTTTCCT	893
QY	841	CTCTGATTTGGTCTTGGATGTACAGATAATTGCTGTCTCTCATCGTTATTATTGTTTCGAA	900

### RESULT 3

```

US09-374-046A-25
; Sequence 25, Application US/09374046A
; Publication NO. US20030096951A1
; GENERAL INFORMATION:
; APPLICANT: JACOBS, Kenneth
; APPLICANT: MCCOY, John M.
; APPLICANT: McVallie, Edward R.
; APPLICANT: Collins-Racie, Lisa A.
; APPLICANT: Evans, Cheryl

```

Db	894	CTCTGNTGGTTC	TGGATGTCAGATATTTGCTGTGTCCTCTCATCGTTATATTGTTGCA	955
Qy	901	TGATAGAAGATTTAT	TACTCAGAGGGGATCAATGCTCAGTACAGACCATATTGTCATG	960
Db	954	TGATAGAAGATTTAT	TACTCAGAGGGGATCAATGCTCAGTACAGACCATATTGTCATG	1013
Qy	961	CTGCTACGTCCTCC	AGTGAATGGTTATTTTGGAGGAGTCTGTATGCTACAGAGGAGAA	1022
Db	1014	CTGTACGTCCTCC	AGTGAATGGTTATTTTGGAGGAGTCTGTATGCTACAGAGGAGAA	1077
Qy	1021	GGAGATGGATAAAG	CAGATGTTTATTTGGGCAATTCCTTATCCAGCATATGGTGTGGCA	1088
Db	1074	GGAGATGGATAAAG	CAGATGTTTATTTGGGCAATTCCTTATCCAGCATATGGTGTGGCA	1133
Qy	1081	CTGCGCTTCTTCAT	CNAATTTCAAGCAATTTATTACCATGCTTCAAGAGCATTCCTTTTG	1144
Db	1134	CTGCGCTTCTTCAT	CNAATTTCAAGCAATTTATTACCATGCTTCAAGAGCATTCCTTTTG	1199
Qy	1141	GAACAAATGGTGCG	CGTTGGTTCGATCTGTGTTTTTGGTATTCCTCCTCAAAATCTTGTTG	1200
Db	1194	GAACAAATGGTGCG	TTGTGCAATCTGTTTTTGGTATTCCTCCTCAAAATCTTGTTG	1253
Qy	1201	GTACAAATCTTGG	CGGAAATCTGTACAGTCAGGTCAGCGCAACCTTCCTGTGCTGCAATGCTG	1266
Db	1254	GTACAAATCTTGG	CGGAAATCTGTACAGTCAGGTCAGCGCAACCTTCCTGTGCTGCAATGCTG	1313
Qy	1261	TGCTCGTCTCTAT	ACCGGAGAAAAATGGTTTCATGGAGCCTGGGTTATTGTTTGCTCGG	1322
Db	1314	TGCTCGTCTCTAT	ACCGGAGAAAAATGGTTTCATGGAGCCTGGGTTATTGTTTGCTCGG	1377
Qy	1321	GTGGAAATTTTAC	CTTTTGGTTCAAATCTTTATGAAATGTATTTCATCTCTCAAGCTTTCT	1388
Db	1374	GTGGAAATTTTAC	CTTTTGGTTCAAATCTTTATGAAATGTATTTCATCTCTCAAGCTTTCT	1433
Qy	1381	GGGCATATAAGAT	CTATTATGTCTATGGCTTCATGATGCTGGTGCTGGTTATTCCTGTGCA	1444
Db	1434	GGGCATATAAGAT	CTATTATGTCTATGGCTTCATGATGCTGGTGCTGGTTATTCCTGTGCA	1499
Qy	1441	TTGTGACATCTGT	GTGCACTATTGTGTCACATATTTCTACTAAATGTCAGAAAGATTACC	1500
Db	1494	TTGTGACATCTGT	GTGTCACATTTCTACTAAATGTCAGAAAGATTACC	1553
Qy	1501	GGTGGCAATGACA	AGTTTCTCTCTGCTGCATCACTGCAATCTATGTTTACATGTATT	1566
Db	1554	GGTGGCAATGACA	AGTTTCTCTCTGCTGCATCACTGCAATCTATGTTTACATGTATT	1613
Qy	1561	CTTTTACTACTAT	TTTTTTTCAAAACAAAGATGTATGGCTTATTTCAAAATCATTTTTTACT	1622
Db	1614	CTTTTACTACTAT	TTTTTTTCAAAACAAAGATGTATGGCTTATTTCAAAATCATTTTTTACT	1677
Qy	1621	TTGGATATATGG	CGGTATTATAGCACAGCCTTGGGGATAATGTGTGGAGCGATTGGTTACA	1688
Db	1674	TTGGATATATGG	CGGTATTATAGCACAGCCTTGGGGATAATGTGTGGAGCGATTGGTTACA	1733
Qy	1681	TGGGAACAAAGT	GCCTTTGTCCGAAAAATCTATACTAATGTGAAAAATTGACTAGAGACCCA	1744
Db	1734	TGGGAACAAAGT	GCCTTTGTCCGAAAAATCTATACTAATGTGAAAAATTGACTAGAGACCCA	1799
Qy	1741	AGAAAAACCTG	GAACCTTTTGGATCAATTTTTCTTTTTTCATAGGGGTGGAACTCTGCACACAAA	1800
Db	1794	AGAAAACTGGAA	CTTTTGGATCAATTTTTCTTTTTTCATAGGGGTGGAACTCTGCACACAAA	1853





## RESULT 4

```

US-10-616-263-25
; Sequence 25, Application US/10616263
; Publication No. US20040038276A1
; GENERAL INFORMATION:
; APPLICANT: Jacobs, Kenneth
; APPLICANT: McCoy, John M.
; APPLICANT: LaVallie, Edward R.
; APPLICANT: Collins-Racie, Lisa A.
; APPLICANT: Evans, Cheryl
; APPLICANT: Merberg, David
; APPLICANT: Treacy, Maurice
; APPLICANT: Agostino, Michael J.
; APPLICANT: Steininger II, Robert J.
; APPLICANT: Spaulding, Vikki
; APPLICANT: Wong, Gordon G.
; APPLICANT: Clark, Hilary
; APPLICANT: Fechtel, Kim
; APPLICANT: Genetics Institute, Inc.
; TITLE OF INVENTION: SECRETED PROTEINS AND POLYNUCLEOTIDES ENCODING THEM
; FILE REFERENCE: 00766.000103.5
; CURRENT APPLICATION NUMBER: US/10/616,263
; CURRENT FILING DATE: 2003-07-08
; NUMBER OF SEQ ID NOS: 240
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 25
; LENGTH: 3370
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-616-263-25

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Query Match	99.7%	Score 1794.4	DB 16	Length 3370
Best Local Similarity	99.9%	Pred. No. 0		
Matches 1795	Conservative 0	Mismatches 1	Indels 0	Gaps 0
QY	5	CGCGCTGTGGCTGCTGCTGCTGCTGCTGCCCGGACCGGGCGGACGACGACGAACACAC	64	
Db	1	CGCGCTGTGGCTGCTGCTGCTGCTGCTGCCCGGACCGGGCGGACGACGACGAACACAC	60	
QY	65	GTATCAAGATAAAGAGGAAGTGTCTTATGGATGAATACTGTGTGGGCCCTACATAATCG	124	
Db	61	GTATCAAGATAAAGAGGAAGTGTCTTATGGATGAATACTGTGTGGGCCCTACATAATCG	120	
QY	125	TCAAGAAACATATAAGTACTTTTCACATTCCTGTGTGGGTCAAAAAAAGATACAG	184	
Db	121	TCAAGAAACATATAAGTACTTTTCACATTCCTGTGTGGGTCAAAAAAAGATACAG	180	
QY	185	TCATTACCATTGAAACTCTGGGAGAGCACTTCAAGGGTTGAAATCGAATTTAGTGGTCT	244	
Db	181	TCATTACCATTGAAACTCTGGGAGAGCACTTCAAGGGTTGAAATCGAATTTAGTGGTCT	240	
QY	245	GGATATTAAATTTAAGATGATGTGATGCCAGGCACCTTACTGTGAATTTGATTAGATAA	304	
Db	241	GGATATTAAATTTAAGATGATGTGATGCCAGGCACCTTACTGTGAATTTGATTAGATAA	300	
QY	305	AGAAAGAGAGATGCATTTGTATATGCCATAAAAAATCATTTACTGGTACCAGATGTACAT	364	
Db	301	AGAAAGAGAGATGCATTTGTATATGCCATAAAAAATCATTTACTGGTACCAGATGTACAT	360	
QY	365	AGATGATTTACCAATATCGGCTATTGTGTGTGGCTGATGAAATGAGAGAGATTACTA	424	
Db	361	AGATGATTTACCAATATCGGCTATTGTGTGTGGCTGATGAAATGAGAGAGATTACTA	420	
QY	425	TCTTTGGACCTATAAAAACTTGAATAGGTTTTTAATGGAAATCGAAATTTGTTGATGTTAA	484	
Db	421	TCTTTGGACCTATAAAAACTTGAATAGGTTTTTAATGGAAATCGAAATTTGTTGATGTTAA	480	
QY	485	TCTTAAGTGTGAAGGAAGGTGAACCTGGTTCCAAATCTAATAATCCAGATGCTCATATTC	544	
Db	481	TCTTAAGTGTGAAGGAAGGTGAACCTGGTTCCAAATCTAATAATCCAGATGCTCATATTC	540	
QY	545	AGTAAATTTGGAAGAGTACAGATGTGTGAATTTGAAGATTCGATTTTGAACAAATATCTTTGATGCC	604	

541	AGTAAATGGAAGAAGTCAGATGTAATTTGAAGATCGATTTTGACAAATATCTTGATCC	600
605	GTCCTTTTTCAACATCGGATTCATTGGTTTTCAATTTTCAACTCTCTCATGATGGTAT	664
601	GTCCTTTTTCAACATCGGATTCATTGGTTTTCAATTTTCAACTCTCTCATGATGGTAT	660
665	CTTCTCGGTGGGCTTAGTTTTCAATGATTTTTAAATGAGAAACATTAAAGAAAGATTTATGCTCG	724
661	CTTCTCGGTGGGCTTAGTTTTCAATGATTTTTAAATGAGAAACATTAAAGAAAGATTTATGCTCG	720
725	GTACAGTAAAGAGGAAGAAATGGATGATATGGATAGAGACCTAGGAGATGAATATGGATG	784
721	GTACAGTAAAGAGGAAGAAATGGATGATATGGATAGAGACCTAGGAGATGAATATGGATG	780
785	GAACACAGGTGATGAGAGATGATATTTAGACACATCAAGTCACCACTGATATTTTCCCTCTCT	844
781	GAACACAGGTGATGAGAGATGATATTTAGACACATCAAGTCACCACTGATATTTTCCCTCTCT	840
845	GATTGGTCTCGGATGTCAGATATTTGCTGTGCTCTCATCGTTATTTATTTGTCGAATGAT	904
841	GATTGGTCTCGGATGTCAGATATTTGCTGTGCTCTCATCGTTATTTATTTGTCGAATGAT	900
905	AGAAGATTTATATCTAGAGAGGGATCAATGCTCAGTACAGCCATATTTGTCATGCTGTC	964
901	AGAAGATTTATATCTAGAGAGGGATCAATGCTCAGTACAGCCATATTTGTCATGCTGTC	960
965	TACGTCTCCAGTGAATCGTTATTTTGAGGAAAGTCGTATGCTAGACAAGAGAGGAAGGAG	1024
961	TACGTCTCCAGTGAATCGTTATTTTGAGGAAAGTCGTATGCTAGACAAGAGAGGAAGGAG	1020
1025	ATGGATAAAGCAGATGTTTATTTGGGCGATTCCTTATCCAGCTATGGTGTGGCACTGC	1084
1021	ATGGATAAAGCAGATGTTTATTTGGGCGATTCCTTATCCAGCTATGGTGTGGCACTGC	1080
1085	CTTCTTCATCAATTTCAATAGCCATTTATACCAATGCTTCAAGAGCCATTCCTTTTGGAAAC	1144
1081	CTTCTTCATCAATTTCAATAGCCATTTATACCAATGCTTCAAGAGCCATTCCTTTTGGAAAC	1140
1145	AATGGTGGCGGTTGTTGTCATCTGTTTTTTTGTTTATTTCTTCCCTAAATCTTGTTGGTAC	1204
1141	AATGGTGGCGGTTGTTGTCATCTGTTTTTTTGTTTATTTCTTCCCTAAATCTTGTTGGTAC	1200
1205	AATACTTGGCGGAAATCTGTCAGGTACGCCCACTTTCTTGTGCTGTGTAATGCTGTGCC	1264
1201	AATACTTGGCGGAAATCTGTCAGGTACGCCCACTTTCTTGTGCTGTGTAATGCTGTGCC	1260
1265	TCGTCTTATACCGGAGAAAAATGTTTCATGAGAGCCTGCGGTTATTTGTTGCGCTGGGTGG	1324
1261	TCGTCTTATACCGGAGAAAAATGTTTCATGAGAGCCTGCGGTTATTTGTTGCGCTGGGTGG	1320
1325	AATTTTACCTTTTGGTTCAATCTTTATTTGAAATGATTTTCACTTCACTGCTTTCTGGGC	1384
1321	AATTTTACCTTTTGGTTCAATCTTTATTTGAAATGATTTTCACTTCACTGCTTTCTGGGC	1380
1385	ATATAAGATCTATATGCTATCGCTTCATGATGCTGGTGTCTGGTTATCTGTGTCATTTGT	1444
1381	ATATAAGATCTATATGCTATCGCTTCATGATGCTGGTGTCTGGTTATCTGTGTCATTTGT	1440
1445	GACTGTCTGTCTGACTATTTGTGCAATATTTTCTATAAATGCGAGAGATTTACCGGTG	1504
1441	GACTGTCTGTCTGACTATTTGTGCAATATTTTCTATAAATGCGAGAGATTTACCGGTG	1500
1505	GCAATGACAAGTTTTCTCTCGCTGCATCAACTGCAATCTATGTTTACATGTTATTCCTT	1564
1501	GCAATGACAAGTTTTCTCTCGCTGCATCAACTGCAATCTATGTTTACATGTTATTCCTT	1560
1565	TTACTACTATTTTTTCAAAACAAAGATGATGCTCTATTTTCAAAACATCATTTTACTTTGG	1624
1561	TTACTACTATTTTTTCAAAACAAAGATGATGCTCTATTTTCAAAACATCATTTTACTTTGG	1620
1625	ATATATGCGCGTATTTTAGCACAGCCTTTGGGGATAATGTTGTGGAGCGAATTTGGTTACATGGG	1684
1621	ATATATGCGCGTATTTTAGCACAGCCTTTGGGGATAATGTTGTGGAGCGAATTTGGTTACATGGG	1680







1308 GTGCTCGTCTCTATACCGGAGAAAAATGGTTCATGGAG-CTGGGGTTATTTGTTGGCTG 1366  
 1320 GGTGGAAATTTACCTTTTGGTTCAATCTTTATTGAAATGTATTTTCATCTTTCAAGTCTTTTC 1379  
 1367 GGTGGAAATTTACCTTTTGGTTCAATCTTTATTGAAATGTATTTTCATCTTTCAAGTCTTTTC 1426  
 1380 TGGGCATATAAGATCTATTATGTCTATGGCTTCAATGATGCTGGTCTGGTTATTCCTGTGC 1439  
 1427 TGGGCATATAAGATCTATTATGTCTATGGCTTCAATGATGCTGGTCTGGTTATTCCTGTGC 1486  
 1440 ATTGTGACTGCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAGAAGATTAC 1499  
 1487 ATTGTGACTGCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAGAAGATTAC 1546  
 1500 CGGTGGCAATGGACAAGATTTTCTCTGTCTGCATCAACTCAATCTATGTTTACATGTAT 1559  
 1547 CGGTGGCAATGGACAAGATTTTCTCTGTCTGCATCAACTCAATCTATGTTTACATGTAT 1606  
 1560 TCCTTTTACTACTATTTTTCAAAACAAAGATGTATGGCTTATTTCAAACATCATTTTAC 1619  
 1607 TCCTTTTACTACTATTTTTCAAAACAAAGATGTATGGCTTATTTCAAACATCATTTTAC 1666  
 1620 TTTGGATATATGGCGGTATTTAGCACAGCCTTGGGGATAATGTGTGGAGCGATTGGTTAC 1679  
 1667 TTTGGATATATGGCGGTATTTAGCACAGCCTTGGGGATAATGTGTGGAGCGATTGGTTAC 1726  
 1680 ATGGGAACAAGTGCCTTTGTCCGAAAAATCTATATAATGTGAAAAATTGACTAGAGACCC 1739  
 1727 ATGGGAACAAGTGCCTTTGTCCGAAAAATCTATATAATGTGAAAAATTGACTAGAGACCC 1786  
 1740 AAGAAACCTTGGAACTTTGGATCAATTTCTTTTTCATAGGGTGGAACTTGCACAGCAAA 1799  
 1787 AAGAAACCTTGGAACTTTGGATCAATTTCTTTTTCATAGGGTGGAACTTGCACAGCAAA 1846  
 1800 A 1800  
 1847 A 1847  
 RESULT 8  
 US-10-062-674-1697  
 ; Sequence 1697, Application US/10062674  
 ; Publication No. US20040005559A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Loring, Jeanne F.; Kaser, Matthew R.  
 ; TITLE OF INVENTION: MARKERS OF NEURONAL DIFFERENTIATION AND MORPHOGENESIS  
 ; FILE REFERENCE: PA-0026-1 CIP  
 ; CURRENT APPLICATION NUMBER: US/10/062,674  
 ; CURRENT FILING DATE: 2002-01-30  
 ; PRIOR APPLICATION NUMBER: US 09/625,102  
 ; PRIOR FILING DATE: 2000-07-24  
 ; NUMBER OF SEQ ID NOS: 2217  
 ; SOFTWARE: PERL Program  
 ; SEQ ID NO 1697  
 ; LENGTH: 6197  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: misc feature  
 ; OTHER INFORMATION: Incyte ID No. US20040005559A1 233927.4  
 ; FEATURE:  
 ; NAME/KEY: unsure  
 ; LOCATION: (1) ... (6197)  
 ; OTHER INFORMATION: a, t, c, g, or other  
 US-10-062-674-1697

	Query Match	56.2%	Score 1011.6;	DB 16;	Length 6197;
	Best Local Similarity	84.6%;	Pred.No. 3.1e-238;		
	Matches 1605; Conservative	0;	Mismatches 195;	Indels 97;	Gaps 38;
Qy	1	CCGCCGGCGCTGTGCTCTGTG-TCTCTGTGTGCCCCGGAC-CCGGCGCAGCAGCACGA	58		
Dd	4	CCGCCGGCGCTGTGCTGTGTTTCTGTGTGTCCTGGACTCCGGCGCAGCAGCACGA	63		

Qy	59	ACACACGATCAAGATAAAGAGGAAGTTGCTTTATGGATGAATACT--GTTGGGCGCCTAC	111
Db	64	ACACACGCTGCAAGATAAAGAGGAAGTTGCTTTATGGATGAATACTTTGTGGGCCCTTAAC	123
Qy	117	CATAATCGTCAAGAAAACATATAAGTACTTTTTCACTTCTCCATTCTGTGTGGGGTCT--AAAA	173
Db	124	AAAATTGTCGACAAAACCTTTTAGTACTTTTCACTTCTCCATTCTGTGTGGGGTCAAAAAA	183
Qy	174	AAAGATATCAGTCATTACCATGAACCTCGGAGAGACCTTCAAGGGGTTGAATTGGAA	233
Db	184	AAAGATATCAGTCATTACCATGAACCTCGGAGAGACCTTCAAGGGGTTGAATTGGAA	243
Qy	234	TTTAGTGGCTCGGATATTAATTTAAAGATG-ATGTGATGCCAGCACCTT-ACTGTGAA	291
Db	244	TTTAGTGGCTCGGATATTAATTTAAAGCTTGCATGTGATGCCAGCACCTTCACTGTGAAC	303
Qy	292	TTTG-ATTTAGATAAAG-AAAGAGAGATGCATTTGTATATGCCATAAAAAATCATTACTG	349
Db	304	TCGCATTCCAGATAAAGCAAAAGAGAGATGCATTTGTATATGCCATAACAAATCATTACTG	363
Qy	350	GTACCAG-ATGTACATAG--ATGATTTTACCAATATCGGGTATTTGTGTGAGCGCTGATGA	406
Db	364	GTACCAGATGTTACATAGCATGATTTTACCNNATATCGGGTATTTGTGTGAGCGCTGATGA	423
Qy	407	AAATG-GAGAAGATTACTATC--TTTGGACCTATAAAAACTTGAAT--AGSTTTTAAT	461
Db	424	AAATCGGAGAGATTACTACTCTGTGGACGTTATAAAAACITGAAATTTAGTTTAACT	483
Qy	462	GGAAATCGAA-----TTGTTGATGTTAATCTAACTAGTAGAGAAAGGTGAACATGG	513
Db	484	GGAAATCGGAAGTTGTTGTATGTATATCTAACTAGCTGAAGAGAAAGAGTGAACATGG	543
Qy	514	TTCCAAATACTAAATCCAGATGTCATATTCAGTAAATGGAAAAAGTCAGA--TGTGA	570
Db	544	TTCCAAATACTAAATCCAGATGTCATATTCAGTAAAGAGTGAACAAGTCAGATTGTGA	603
Qy	571	AAATTTGAAGATCGATTGTGACAAATATCTTGATCCGTCCTCTTTTTCACCATCCGATTCAAT	629
Db	604	AAATTTGAAGATCGATTGTGACAAATATCTTGATCCGTCGCTTTTTCACCATCCGATTCAAT	663
Qy	630	TGGTTTTCAA-----TTTTCAACTCTTTCATGAT-GGTGATCTTCTTGCT-GGGCTTAGT	682
Db	664	TGGTTTTCTCACAATGTTGTCAACTCCGTTCAATGATGGGTGATCTTCTGTGTGGGGCTTAGT	723
Qy	683	TTCAATGATTTTAATGAGAACA--TTAAGAAAAGATTATGCTCGGTGACAGTAAAGAGGA	739
Db	724	TTCAATAGATTTTAATAGAGACATTAAGAAAAGATTATGCTCGGTGACAGTAAAGAGGA	783
Qy	740	AGAAATGAGATGATATGATATAGACACTTAGGAGATGAATATG--GATGAAACAGGTGCA	796
Db	784	AGAAATGAGATGATATGATATAGACACTTAGGAGATGAATATGATGGGAAAAACAGGTGCA	843
Qy	797	T--GGAGATGATTTTAGACCAT-CAAGTCCACCACCTGATATTTTCCTCTCTGATTTGGTTC	853
Db	844	TTGGAAGATGATTTTAGACCATCCAGTCCACCACCTGATATTTTCCTCTCTGATTTGGTTC	903
Qy	854	TGGATGTCAGATATTTGCTGTGCTCTCATC-GTATTAATTTGTTGCAATGATAGAAGATT	912
Db	904	TGGATGTCAGATATTTGCTGTGCTCTCATCGGTAAATTAATGTTGGCAATGATAGAAGATT	963
Qy	913	TATATCTGAGAGGGGATCAATGCTCAGTACAGCCATATTTGCTCTATGC-TGCTACGCT	971
Db	964	AAATATCTGAGAGGGGATCAATGCTCAGTACAGCCATATTTGCTTAAGCTTCTCAGTCT	1021
Qy	972	-CCAGTGAATGGTATTTTGGAGGAAGTCTGTATGCTTAGACAAGGAGGAAGGAGATGGAT	1033
Db	1024	CCCAGTGAATGGTATTTTGGAGGAAGGATACTAAAAGGAGGAAGGAGGAATTTGGGCT	1083
Qy	1031	-----AAACAGATGTTTATTTGGGGCATTC-----TTATCCACGCTATGTTGTTG	1076
Db	1084	ATAAAGCCAGATGTTTAAATTTGGGGGCAATCCCTTTAATTTTCCCAAGCAATTTGGGTT	1143

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QY 1077 GGCAGTGGCTTC-----TTCATCAATTTTCATAGCCATTTATACATGCTTCAA 1125
Db 1144 GTTGTGGCCAACTGGCCCTCTTTTCATCAATTTTCATAGCCATTTATACATGCTTCAA 1203
QY 1126 GAGCCATTCCTTTTGGAAAC-AATGGTGGCCCTTTTGTGCACTCG-TTTTGTGTTATCT 1183
Db 1204 GAGCCATTCCTTTTGGGCAAAATGGTGGCCCTTTTGTGCACTCGTTTGTGTTATCT 1263
QY 1184 TCCTCTAAATCTTGTGTAGCAATACITGGCCGAAATCTGTCAAGTCAGCCCACTTTC 1243
Db 1264 TCCTCTAAATCTTGTGTAGCAATACITGGCCGAAATCTGTCAAGTCAGCCCACTTTC 1323
QY 1244 TTGTCTCTCAATGCTGTGCCTC-GTCCATATACCGGAGA-----AAAAATGGTTTCATGGAG 1298
Db 1324 TTGTCTCTCAATGCTGTGCCTCTGTCTATACCGGAGACACACATGGTACATGGAG 1383
QY 1299 CTTGGGGTATGTTTGGCTGGGTGGAATTTTACCTTTTGGTTCATCTTTTATGAAATG 1358
Db 1384 CTTGGGGTATGTTTGGCTGGGTGGAATTTTACCTTTTGGTTCATCTTTTATGAAATG 1443
QY 1359 TATTTTCATCTTCAGCTCTTTCTGGGCATATAGATCTATTATGCTATGGCTTCATGATG 1418
Db 1444 TATTTTCATCTTCAGCTCTTTCTGGGCATATAGATCTATTATGCTATGGCTTCATGATG 1503
QY 1419 CTGGTCTGTTATCTCTGTCATTTGACTGTCTGTGTGACTATTGTGTGCAATATTTT 1478
Db 1504 CTGGTCTGTTATCTCTGTCATTTGACTGTCTGTGTGACTATTGTGTGCAATATTTT 1563
QY 1479 CTACTAATGAGAGATTCAGGTGGCAATGGCAAGTCTTCTCTGCTGGATCAACT 1538
Db 1564 CTACTAATGAGAGATTCAGGTGGCAATGGCAAGTCTTCTCTGCTGGATCAACT 1623
QY 1539 GCAATCTATGTTTACATGATTTCTTTTACTACTATTTTTT-----CAAAAACAAAGAT 1591
Db 1624 GCAATCTATGTTTACATGATTTCTTTTACTACTATTTTTT-----CAAAAACAAAGATGAT 1683
QY 1592 GTATGGCTTATTTCAACATCATTTTACTTTGGATATATGCG--GGTATTTAGCAGGCC 1649
Db 1684 GTGCTTATGTTCAACATCATTTTACTTTGGATATATGCGGTGATATATAGCAGATC 1743
QY 1650 TTGGGATAATGTGTG-----GAGCGATGTTGTACATGGGAACAGTGCCTTTTGTCCGAAA 1705
Db 1744 CTTGGGATATATGTGTGGAGCATATGTTTACATGGGGAACAGTGCCTTTTGTCCGAAA 1803
QY 1706 AATCTATCTAATGTGAAAATGTAGTACAGACCCCAAGAAAACCTGGAACTTTT-GGATCAA 1764
Db 1804 AATCTATCTAATGTGAAAATGTAGTACAGACCCCAAGAAAACCTGGAACTTTTGGATCAA 1863
QY 1765 TTTCTTTTTCATAGGGGT-GGAACTTGCACAGCAAAA 1800
Db 1864 TTTCTTTTTCATAGGGGTGGGAATTTGCACAGCAAAA 1900

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RESULT 9

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US-10-264-237-1414
; Sequence 1414, Application US/10264237
; Publication No. US20040009491A1
; GENERAL INFORMATION:
; APPLICANT: Bires et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PA131P1
; CURRENT APPLICATION NUMBER: US/10/264,237
; CURRENT FILING DATE: 2002-10-04
; PRIOR APPLICATION NUMBER: PCT/US01/16450
; PRIOR FILING DATE: 2001-05-18
; PRIOR APPLICATION NUMBER: US 60/205,515
; PRIOR FILING DATE: 2000-05-19
; NUMBER OF SEQ ID NOS: 2876
; SOFTWARE: PatentIn Ver. 3.1
; SEQ ID NO 1414
; LENGTH: 1070
; TYPE: DNA
; ORGANISM: Homo sapiens

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Query Match 39.8%; Score 716.4; DB 16; Length 1070;
Best Local Similarity 92.6%; Pred. No. 6.9e-166;
Matches 803; Conservative 0; Mismatches 11; Indels 53; Gaps 3;

QY 987 TTGGAGGAAGTCTCTATGCTAGACAAGGAGGAGGATGATTAAGCAGATGTTTATT 1046
Db 20 TTGGAGGCTCTCTATGCTAGACAAGGAGGAGGATGATTAAGCAGATGTTTATT 79
QY 1047 GGGGCATTCCTTATCCAGCTATGCTGTGCACTGCTCTTTCATCAATTTTCATAGCC 1106
Db 80 GGGGCATTCCTTATCCAGCTATGCTGTGCACTGCTCTTTCATCAATTTTCATAGCC 139
QY 1107 ATTTATACCATGCTTCAAGAGCCATTCCTTTTGGAAACAATGGTGGCCGTTTGTGCATC 1166
Db 140 ATTTATACCATGCTTCAAGAGCCATTCCTTTTGGAAACAATGGTGGCCGTTTGTGCATC 199
QY 1167 TGTTTTTTGTATCTTCTCTAAATCTTGTGTGTAACAATCTGGCCGAAATCTGTCA 1226
Db 200 TGTTTTTTGTATCTTCTCTAAATCTTGTGTGTAACAATCTGGCCGAAATCTGTCA 259
QY 1227 GTCAGCCCAACTTTCTTGTGCGTCAATGCTGTGCTCTCTATACCGGAGAAAAA 1286
Db 260 GGTGAGCCCAACTTTCTTGTGCGTCAATGCTGTGCTCTCTATACCGGAGAAAAA 319
QY 1287 TGGTTTCATGGAGCCCTGGGTTATGTTTGGCTGGTGAATTTTACCTTTTGGTTCAATC 1346
Db 320 TGGTTTCATGGAGCCCTGGGTTATGTTTGGCTGGTGAATTTTACCTTTTGGTTCAATC 379

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QY 1161 TGCATCTGTTTTTTTGTATCTTCCTCTAAATCTTTGTGGTACAAATACATTGGCCGAAT 1220
Db 1413 GTACTTTGGGCATTCATATCTTTTCCGTTGGTCTTTTGGAACTCTGTGTGGTAGAAAC 1472
QY 1221 CTGTCAGGTGAGCCCACTTCTTGTGCGTCAATGCTGCTCCTCTATACCGGAG 1280
Db 1473 TGGAGTGGTCTCGGAACAATCCCTGCGGAGTAAGACTATTCACGGCCTATCTCTGAG 1532
QY 1281 AAAAAATGGTTCATGGAGCCTGGGTTAATTTGTGCTGCGTGGAAATTTTACCTTTTGT 1340
Db 1533 AAGAAGTGGTACCTTACACCTTCTGTCTATCTCATCTGATGGTGGCCTGCTCCCTTTGGC 1592
QY 1341 TCAATCTTTATGMAATGTAATTCATCTTCACGCTCTTTCTGGGCATATAAGATCTATTAT 1400
Db 1593 AGTATCTTCATTGAGATGTACTTGGTTCACATCATCTGGAACATATAAGGTGTATTAT 1652
QY 1401 GTCTATGGCTTCATGATGCTGGTCTGCTGTTATCTGTCATCTGACTGCTGCTGTGACT 1460
Db 1653 GTCTACGGTTCATGTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1712
QY 1461 ATTGTGTCATATTTTCTAAATGCAAGATATACCGGTGGCAATGGACAAGTTTTT 1520
Db 1713 ATTGTGGGTACTTATTTCTGCTGAACCGCGAGAACTATCACTGGCAATGGAGTCTGTTT 1772
QY 1521 CTCTCTGTCATCAACTGCAATCTATGTTTACATGTAATCTCTTTTACTACTATTTTTC 1580
Db 1773 TCCTCTCGGGCGTCAACCGCTTTGTATGTATCTGTAATCTCTTCTCTANTACTCACCAT 1832
QY 1581 AAAAAAAGATGTATGCTTATTTCAAAACATCAATTTTACTTTTGGATATATGGCGTATTT 1640
Db 1833 AAGACAAGATGTCAGCGCTCTTTTCAGACAAGTTCTACTTTGGTTACACACTGATGTTT 1892
QY 1641 AGCACGCTTGGGATAATGTGTGGAGCATGTTGTATGATGGAACAAGTGGCCTTTGTC 1700
Db 1893 TGCCTTGGTCTAGGCATCTTTGTGGTGTCTATTTGGGTATCTAGGGTCAACCCCTTTTGT 1952
QY 1701 CGAAAAATCTATCTAATGTGAAATGCACTAGAGACC 1736
Db 1953 AGGGAATCTACGAATATCAATGTGATTAATCCC 1990
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## RESULT 13

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US-10-739-930-4365
; Sequence 4365, Application US/10739930
; Publication No. US20040216190A1
; GENERAL INFORMATION:
; APPLICANT: Kovalic, David K.
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES AND OTHER MOLECULES ASSOCIATED WITH
; TITLE OF INVENTION: PLANTS AND USES THEREOF FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53377)B
; CURRENT APPLICATION NUMBER: US/10/739,930
; CURRENT FILING DATE: 2003-12-18
; NUMBER OF SEQ ID NOS: 11088
; SEQ ID NO 4365
; LENGTH: 2355
; TYPE: DNA
; ORGANISM: Triticum aestivum
; FEATURE:
; OTHER INFORMATION: Clone ID: TRIAB-23APR03-CLUSTER2111_1
US-10-739-930-4365
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Query Match 32.3%; Score 581; DB 15; Length 2355;
Best Local Similarity 60.0%; Pred. No. 2.6e-132;
Matches 1025; Conservative 0; Mismatches 675; Indels 9; Gaps 3;
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QY 30 CTGCCCCGGACCCGGGCGGAGCAGACGACACACAGTATCAAGTAAGAGGAGTTGTC 89
Db 186 CCGCTCCGCGGCTCCGCGCTCAGAGTCTGACACAAAGTACAAAGCTGGAGATTCAGTTAAG 245
QY 90 TTATGGATGAATCTGTGGCCCTACCAATCGTCAAGAAAACATATAAGTACTTTTCA 149
Db 246 CTCTGGGTGAATAAGTTGGACCTTACAATATCTCTCAAGAACTTACAAATTATCACAGC 305
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QY 150 CTTCCATTTCTGTGGGGTCAAAAAAGTATCATCTATTACCATGAACCTCTGGGAA 209
Db 306 CTTCCATTTCTGCAACCATCTGGAACCCCT--GGGCATTAAGTGGGTGGTCTTTGGAGAA 362
QY 210 GCACCTTCAAGGGGTGAATTTAGTGGTCTGGATATTAATTTAAAGATGATGTG 269
Db 363 GTCCCTGGGTGGGAATGAGTTCATTTGATAGTCAGCTTGACATAAAGTCTTTAAGAAATGTG 422
QY 270 ATGCCAGCCACTTACTGTGAAATGATTTAGATTAAGAAAGAGAGATGCATTTGTATAT 329
Db 423 GAAAGGGATCCATTTTGACACTGGAACTAGATCCCAAGAGACTCAACAAATTTGCTGAT 482
QY 330 GCCATAAAAAATCATTTACTGTGTACAGATGTACATAGATGATTTTACCAATATGGGTATT 389
Db 483 GCCATTTGAAGCTCGTACTGGTTTGAATTTTCAATGATGATCTGCCCTCTTTTGGGGTTTT 542
QY 390 GTTGTGTAGGCTGATGAAAA--TGGAGAAGATTAATCTTTTGGACCTATPAAAAAATTT 446
Db 543 GTTGGAGAGACTGACAAAAACAGTGAACAAACAGCACTATCTTTACGCAACAAGAACATT 602
QY 447 GAAATAGTTTTTAATGGAAATCGAATTTGTGATGTTAATCTAACTAGTGAAGAAAGTG 506
Db 603 CTTGTAAGATCAACGATTAACAGGATTAATCATGTTAATCTCACCCCAAGATCTCCTTAAG 662
QY 507 AAACCTGGTTCCAAATATCAAAATCCAGATGTCAATTCAGTAAATGAAAAAGTCAAGT 566
Db 663 CTCCTTGACGCTGTGAACACTTGGACATGACATATTCAGCGAAGTGGGTACCGACAGAT 722
QY 567 GTGAAATTTGAAGATCGAATTTGACAAATATCTTGATCCGTCTCTTTTCAACATCGGATT 626
Db 723 GTTTCATTTGACGCGGTTTTGAAGTTTACCTGGACTATCCCTTTCTTTGAAACCCAGATT 782
QY 627 CATTCGGTTTTCAATTTTCAACTCTTTCATGATGGTGTCTTTGGTGGGCTTAGTTTCA 686
Db 783 CACTGGTCTCCATTTTCAATCTTTCATGATGGTATTTTCTCCTCAGTGGTTGGTTTCA 842
QY 687 ATGATTTTAAATGAGAACATTAAGAAAGATTAATGCTCGGTA--CAGTAAAGAGAAAGAA 743
Db 843 ATGATATTGATGCGAAACACTGAGAAATGATTAATGCAAAATATGCTCGTGATGATGATGAT 902
QY 744 ATGGATGATATGGATAGAGACCTAGGAGATGAATATGATGGAACACAGTGCATGAGAT 803
Db 903 CTAGAGTCACTGGAGAGAGATGTTAATGAGGAATCTGGGTGGAACCTTGTCTCATGGTAT 962
QY 804 GTATTTAGACCATCAAGTCAACCCACTGATATTTCTCTCTGATTTGTTCTGGATGTCAG 863
Db 963 GTATTTGCTCTCTAGAGCTTGACACTTCTTCTGCTCTGTTGGTATCGGCACCCAG 1022
QY 864 ATATTTGCTGTCTCTCATCGTTTATTTGTAATGTAATGTAATGTAATGTAATGTAATGTA 923
Db 1023 CTGGCAGCTCTTATCTACTTGTGATTTGTTGGCCATCTGTTGGCATGTTTATGTTGGG 1082
QY 924 AGGGGATCAATGCTCAGTACAGCCATATTTGTCTATGCTGTACGCTCTCCAGTGAATGTT 983
Db 1083 CGAGGGGCTATCATCACAACTTCACTGTTGCTATGCTCTTACATCTTTTATTTCTGGA 1142
QY 984 TATTTTGGAGGAGTCTGTATGCTAGACAAGGAGAGAGATGGAATAAGACAGATGTTT 1043
Db 1143 TATGTTAGTGTGTTTGTACTCGAGGAATCGCGGTAAAAAACTGGATAAAGCTATGATC 1202
QY 1044 ATTTGGGATTCCTTATCCAGCTATGTTGTGCGACTGCTCTTCTCATCAATTTTCA 1103
Db 1203 CTTACAGCATCCCTCTTCCATCTTGGCACTTGGCAATTTGGCTTTGGCACTGAATACAAT 1262
QY 1104 GGCATTTTATCACTGCTTCAAGAGCCATTCCTTTTGGAAACAATGGTGGCCGTTTGTTC 1163
Db 1263 GCAATCTTCTATGGGTCAATAGCGCAATACCAATTTGGTACAACTGTTGTCTATTTTGTG 1322
QY 1164 ATCTGTTTTTTTGTATCTTCTCTCTAAATCTTGTGTTGTAATACTTGGCGGAAATCTG 1223
Db 1323 CTTTGGGCTTTTCATATCTTTTCCACTGTGCTCTTTTGGGAACGGTCTTGGTAGAAACATGG 1382
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1159	TGCTATCTTCTACCGATCAATTAGGGCAATACCAATTCGGCACAAATGTTGTCATGTTCTG	1160	
Qy		Qy	
1163	CATCTGTTTTTTTGGTTATTTCTTCTCTAAATCTTGTTGGTACAATACTTGCCCGAAATCT	1222	
Db		Db	
1099	TCCTTGGGCGCTTCATTTCTTTTCGGCTGGTGCTTCTGGAACTGTTGTTGGTAGGAAC	1040	
Qy		Qy	
1223	GTCAAGTACGCCAACTTTCCTTGTCGTGTCAATGCTGTGCGCTGCTCTATATACGGAGAA	1282	
Db		Db	
1039	GAGTGGTGTCTCTAACAAATCCCTGCCAGATAAGAACTATTCCACGGGCTATTCCAGAGAA	980	
Qy		Qy	
1283	AAAATGGTTTCATGGAGCGCTCGGTTATTGTTTGCTGGGTGGAAATTTACCTTTTGGTTTC	1342	
Db		Db	
979	GAGTGGTACTTACACCTTCTGTATCTCATTCATGGTGGGCTGCTCCCTTTGGCAG	920	
Qy		Qy	
1343	AATCTTTAATTGAAATGTATTTCATCTTTCACGTCTTCTCGGCATATAAGAACTATTATGT	1402	
Db		Db	
919	TATCTTCATTGAGATGTACTTTTGTTGTTCACTGCTCATTTCTGGAACTACAAGGTTTATTATGT	860	
Qy		Qy	
1403	CTATGGCTTCATGATGCTGGTGGTTATCTTCCTGTGCATTTGTGACTGCTCTGTGTGACTAT	1462	
Db		Db	
859	CTACGGCTTCATGCTGCTGTCTTTGTCATCTTCTTAATAGTTACAATCTGTGTGCTACTAT	800	
Qy		Qy	
1463	TGTGTGCACATATTTTCTACTAAATGCAGAAAGATTACCGGTGGCAATGGACAAGTTTCT	1522	
Db		Db	
799	TGTGGGTACTTATTTCTTCTGTAATGCTGAGAACTATCACTGGCAATGGACTCATTTCT	740	
Qy		Qy	
1523	CTCTGTGCATCAACTGCAATCTAHTTACATGTATCTCTTTTACTACTATTTTTTCAA	1582	
Db		Db	
739	CTCTGCTGCATCAACTCGGTTATATGTGTATCTATATTCCATCTACTACTATCATGTAAA	680	
Qy		Qy	
1583	AACAAAGATGTATGGCTTATTTCAAACATCATTTTACTTTTGGATATATGGCGTATTATAG	1642	
Db		Db	
679	GACAAAGATGTACAGGTTTTTCCAGACGAGTTTCTCTTCGGTTACACATTGATGTTCTG	620	
Qy		Qy	
1643	CACAGCCTTGGGGAATAATGTGTGGAGCGAATGGTTACATGGGAACAAGTGCCTTTGTCCG	1702	
Db		Db	
619	CCTTGGTCTAGGCATATCTTGTGGTGCTATTGGCTATCTAGGCGCAACTCTTTTGTGAG	560	
Qy		Qy	
1703	AAAAATCTACTAATGTGAAAAATTGACTAGA	1734	
Db		Db	
559	GAGAAATCTACAGAAACATCAAAATGTGATTAGA	528	

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RESULT 15
US-10-437-963-39405
; Sequence 39405, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 39405
; LENGTH: 1899
; TYPE: DNA
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_42949C.1
US-10-437-963-39405

```

Query Match	31.6%	Score 568.8;	DB 17;	Length 1899;
Best Local Similarity	59.8%;	Pred. No. 2.4e-129;		
Matches 1011; Conservative	0;	Mismatches 672;	Indels 9;	Gaps 3;

Qy	1	CCGCGGGCTGTGGCTGTGCTGCTGCTGCCCGGACCCGGGCGGAGCAGCAAGAAC	60
Db	83		142
Qy	61	ACACGTATCAAGATAAAGAGGAAGTTGTCTTATGGATGAATACTGTITGGGCCCTCACATA	120
Db	143	ACAAGTACCATCGGAGGAGAAGTTATGCTCTGGGTGAACAGGTTTGCCCCGTACAACA	202
Qy	121	ATCGTCAAGAAACATATAAGTACTTTTTTCATTCCATTCTGTGTGGGTCAAHAAAAGTA	180
Db	203	ACCAACAGGAAACTTACAACACTACAGCGCTTCGGTTTTGCCATCGCTCCAATAA---CC	259
Qy	181	TGAGTCATTACCATGAACTCTCGGGAGAGCACTTCAAGGGTGTGAATTTGAATTTTAGTG	240
Db	260	CCGTGCATAAATGGGAGGGCTTGGGAGGTTCTCGGTGGAATGAGCTGATTTGACAGCC	319
Qy	241	GTCGTGATATTAATTTAAAGATGATGTGATGCCAGCCACTTACTGTGAAATGATTTTAG	300
Db	320	AGATCGACATAAAGTTTGAAGGGATGTTGACAAGGTTACCAATGTTTCAATTTGAACCTG	379
Qy	301	ATAAAGAAAGAGAGATGCATTTGTATATGCCATAAAAAATCATTTACTTGGTACCAGATGT	360
Db	380	ATCCTGACAAGGCCAACAGCTTATCTGATGCGATTGAGAGTTCCATATGGTTTGAATTTCT	439
Qy	361	ACATAGATGATTTACCAATATGGGTATTGTTGGTGAGGCTGATGAAATGGAAGAAGATT	420
Db	440	TCAATGATGATTTGCCCTCTATGGGTTTGTTCGAGAGCAGACAGANAATAGCGATAACA	499
Qy	421	ACTAT---CTTTGGAGCTATAAAAACTTGAAATAGGTTTTTAATGGAATCGAATTTGTTG	477
Db	500	AATATTTCCTTTTCACTCACAGAACAATCGTCATCAGATACAATTGGCAATTCAGATTATTC	559
Qy	478	ATGTTAATCTAACTAGTGAAGGAAGGTGAAACTGGTTCCAAATACTATAAATCCAGATGT	537
Db	560	ATGTTAATCTTACTCAAGAAAGTCCAAAGCTTATGATGCGGTAGGCCATTGGATATGA	619
Qy	538	CATATTGAGTAAATGAAAAAGTTCAGATGTGAAATTTGAAGATCGAATTTGACAAATATTC	597
Db	620	CATATTCTGTCAAGTGGGAACCAACCAATGTAACATTTGCTCACCGCTTTGATGTATACC	679
Qy	598	TTGATCCGTCCTTTTTCACATCGGNATCAATTTGGTTTTCAAATTTCAACTCTCTTCATGA	657
Db	680	TTGACTACCCCTTTCTTTGAACACAGATCCATTTGGTTCTCAATCTTCAATCTTTTCATGA	739
Qy	658	TGGTGAATCTTTTGGTGGGCTTAGTTTCAATGATTTTAATGAGAACATTAAGAAAAAGATT	717
Db	740	TGGTTATCTTTCTCACCTGGGCTAGTGTCAATGATTTTGTATGGCACCTCTAAGAAATGACT	799
Qy	718	ATGCTCGGTA---CAGTPAAAGAGGAAGAAATGGATGATATGGATAGAGACCTTAGGAGATG	774
Db	800	ATGCAAAAGTATGCCCGGACGATGATGATCTTGAAACTCTTGGAAAGAGATGTCAGTGAAG	859
Qy	775	AATATGATGGAACACAGTGCATGGAGATGATTTATAGACCATCAAGTCACCCACTGATAT	834
Db	860	AATCTGATGGAAGCTTGTCCATGGGAGATGTTTTCCGGCTCTCTCGAGTTTGGCTCTTC	919
Qy	835	TTTCTCTCTGATTTGGTTCTTGGATGTCAGATATTTTGTGTGTCTCTCATCGTTATTATG	894
Db	920	TTTCAGCCCCTTGTTGGTGGTGGCACACAGTTGTCTGCTCTATTCTCTAGTGAATTTGT	979
Qy	895	TTGCAATGATAGAAAGATTTATATCTGAGAGGGGATCAATGCTTCAGTACAGCCATATTTC	954
Db	980	TGGCAATCATCGGAATGCTGTATATTGGGCGAGAGCTATTGTGCACAACTTCATTGTTTT	1039
Qy	955	TCTATGTGCTTCAGCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAG	1014
Db	1040	GTTATGCCCTTACTTCAATCATCTCTGATATGTCASTGGTGCACCTTATTACCGGCATG	1099
Qy	1015	GAGAAAGAGATGGAATAAAGACAGATGTTTATTTGGGGCATTCCTTATCCAGCTATGTTGT	1074
Db	1100	GGGGGAAAACTGATCAAGGCATATGATATGACAGCATCACATTTTCCGTTTATGTGCT	1159



GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: November 17, 2004, 17:15:52 ; Search time 31.2118 Seconds  
(without alignments)  
1223.869 Million cell updates/sec

Title: US-09-319-724B-14

Perfect score: 3089

Sequence: 1 AALWLLLLLPRTRADEHEH.....IGMGTSAFVRKIYTNVKID 576

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 478139 seqs, 66318000 residues

Total number of hits satisfying chosen parameters: 478139

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

- 1: /cgn2\_6/ptodata/1/iaa/5A\_COMB.pep.\*
- 2: /cgn2\_6/ptodata/1/iaa/5B\_COMB.pep.\*
- 3: /cgn2\_6/ptodata/1/iaa/6A\_COMB.pep.\*
- 4: /cgn2\_6/ptodata/1/iaa/6B\_COMB.pep.\*
- 5: /cgn2\_6/ptodata/1/iaa/PTCUS\_COMB.pep.\*
- 6: /cgn2\_6/ptodata/1/iaa/backfiles1.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	3089	100.0	579	4	US-09-786-681A-4
2	3089	100.0	582	4	US-09-786-681A-2
3	1107	35.8	257	4	US-09-270-767-32308
4	950.5	30.8	625	3	US-08-959-004-10
5	843.5	27.3	663	3	US-08-959-004-5
6	694	22.5	667	3	US-08-959-004-11
7	628	20.3	133	4	US-09-270-767-44213
8	628	20.3	133	4	US-09-270-767-59636
9	613	19.8	111	4	US-09-513-999C-7579
10	580	18.8	218	4	US-09-270-767-46281
11	467	15.1	241	4	US-09-248-796A-20311
12	364	11.8	87	4	US-09-513-999C-7785
13	127	4.1	605	4	US-09-593-110-4773
14	120.5	3.9	513	4	US-09-543-681A-8279
15	118.5	3.8	496	3	US-09-134-001C-3703
16	115	3.7	502	4	US-09-328-352-6968
17	112.5	3.6	237	3	US-09-134-001C-3057
18	109	3.5	468	4	US-09-710-279-868
19	109	3.5	468	4	US-09-710-279-1618
20	107.5	3.5	408	2	US-08-742-440A-6
21	107	3.5	353	4	US-09-576-160B-6
22	106.5	3.4	504	4	US-09-489-039A-8489
23	104.5	3.4	453	1	US-08-439-131A-5
24	104.5	3.4	453	1	US-08-440-674-4
25	104.5	3.4	453	1	US-08-879-337-6
26	104.5	3.4	822	4	US-09-824-734-3
27	104	3.4	511	4	US-09-107-532A-6112

28	104	3.4	526	4	US-09-722-377-16	Sequence 16, Appl
29	104	3.4	526	4	US-09-722-377-19	Sequence 19, Appl
30	103	3.3	356	4	US-09-270-767-46804	Sequence 46804, A
31	102.5	3.3	402	4	US-09-270-767-35644	Sequence 35644, A
32	102.5	3.3	402	4	US-09-270-767-50861	Sequence 50861, A
33	102	3.3	407	4	US-09-328-352-5605	Sequence 5605, Ap
34	101.5	3.3	305	4	US-09-583-110-3512	Sequence 3512, Ap
35	101.5	3.3	2938	5	PCT-US94-00188-3	Sequence 3, Appli
36	100	3.2	171	4	US-09-248-796A-20285	Sequence 20285, A
37	99.5	3.2	511	4	US-09-328-352-6365	Sequence 6365, Ap
38	99.5	3.2	616	1	US-08-149-100-2	Sequence 2, Appli
39	98.5	3.2	265	4	US-09-134-000C-5847	Sequence 5847, Ap
40	97.5	3.2	470	2	US-08-724-394A-10	Sequence 10, Appl
41	97.5	3.2	557	4	US-09-521-195B-27	Sequence 27, Appl
42	97.5	3.2	557	4	US-09-798-743-3	Sequence 3, Appli
43	97	3.1	549	4	US-09-115-150-4	Sequence 4, Appli
44	96.5	3.1	565	4	US-09-252-991A-33045	Sequence 33045, A
45	96	3.1	357	5	PCT-US95-07180-3	Sequence 3, Appli

ALIGNMENTS

RESULT 1

US-09-786-681A-4

; Sequence 4, Application US/09786681A

; Patent No. 6692926

; GENERAL INFORMATION:

; APPLICANT: HIDAKA, Jun et al.

; TITLE OF INVENTION: RECOMBINANT HUMAN SM-11044-BINDING RECEPTOR PROTEINS EXHIBITING L

; FILE REFERENCE: 0020-4827P

; CURRENT APPLICATION NUMBER: US/09/786,681A

; CURRENT FILING DATE: 2001-01-24

; NUMBER OF SEQ ID NOS: 7

; SOFTWARE: Patent version 3.0

; SEQ ID NO 4

; LENGTH: 579

; TYPE: PRT

; ORGANISM: Homo sapiens

US-09-786-681A-4

Query Match 100.0%; Score 3089; DB 4; Length 579;

Best Local Similarity 100.0%; Pred. No. 1.2e-294;

Matches 576; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	1	AALWLLLLLPRTRADEHEHTYQDKKEEVLVWNTVGPYHNROETKYFSLPFCVGSKSI	60
DB	4	AALWLLLLLPRTRADEHEHTYQDKKEEVLVWNTVGPYHNROETKYFSLPFCVGSKSI	63
QY	61	SHYHETLGEALQGVLEFSGLDIKFKDDVMPATYCEIDLDKERDAFYVAIKHYYQWY	120
DB	64	SHYHETLGEALQGVLEFSGLDIKFKDDVMPATYCEIDLDKERDAFYVAIKHYYQWY	123
QY	121	IDDLPTWGTVGADENGEDYLTWKLEIGNGNRIYDVNLTSGKVKLVNTKIOMSY	180
DB	124	IDDLPTWGTVGADENGEDYLTWKLEIGNGNRIYDVNLTSGKVKLVNTKIOMSY	183
QY	181	SVKWKSDYKFDKDPDKYLDPSFFQRIHWFISFNFSMMVIFLVGLVSMILMRTLKDYA	240
DB	184	SVKWKSDYKFDKDPDKYLDPSFFQRIHWFISFNFSMMVIFLVGLVSMILMRTLKDYA	243
QY	241	RYSKEEMDMDDRLDDEYGVQVHGDFRPPSHPLIFSSLLTSGCQIPAVSLIIVAM	300
DB	244	RYSKEEMDMDDRLDDEYGVQVHGDFRPPSHPLIFSSLLTSGCQIPAVSLIIVAM	303
QY	301	IEDLYTERGSMSTALFVYAATSPVNGYFGGSLYARQGGRRWKQFIGAFLIPAMVCGT	360
DB	304	IEDLYTERGSMSTALFVYAATSPVNGYFGGSLYARQGGRRWKQFIGAFLIPAMVCGT	363
QY	361	AFFINFIAIYHASRAIPFGTGVAVCCICFFVILPLNLVGTILGNLSQGNPFCRVAV	420
DB	364	AFFINFIAIYHASRAIPFGTGVAVCCICFFVILPLNLVGTILGNLSQGNPFCRVAV	423

QY 421 PRPIPEKKWFMEPAVIVCLGGLPFGSIFIEYFIPTSFWAYKLYYYVGFMMVLVLICI 480  
DB 424 PRPIPEKKWFMEPAVIVCLGGLPFGSIFIEYFIPTSFWAYKLYYYVGFMMVLVLICI 483  
QY 481 VTVCVTIVCTYFLLNAEDYRQWTSFLSAASTAIYVYMYSPYFFKTKMYGLFQTSFYF 540  
DB 484 VTVCVTIVCTYFLLNAEDYRQWTSFLSAASTAIYVYMYSPYFFKTKMYGLFQTSFYF 543  
QY 541 GYMAVFSTALGIMCGAIGYMGTSFAVRKIYTNVKID 576  
DB 544 GYMAVFSTALGIMCGAIGYMGTSFAVRKIYTNVKID 579

RESULT 2  
US-09-786-681A-2  
; Sequence 2, Application US/09786681A  
; Patent No. 6692926  
; GENERAL INFORMATION:  
; APPLICANT: HIDAKA, Jun et al.  
; TITLE OF INVENTION: RECOMBINANT HUMAN SM-11044-BINDING RECEPTOR PROTEINS EXHIBITING I  
; FILE REFERENCE: 0020-4827P  
; CURRENT APPLICATION NUMBER: US/09/786,681A  
; CURRENT FILING DATE: 2001-01-24  
; NUMBER OF SEQ ID NOS: 7  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 2  
; LENGTH: 582  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-786-681A-2

Query Match 100.0%; Score 3089; DB 4; Length 582;  
Best Local Similarity 100.0%; Pred. No. 1.2e-294;  
Matches 576; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AALMLLLLLLPRTRADEHEHTYQKEEVLWMNTVGPVHNRQETKYFSLPFCVGSKSI 60  
DB 7 AALMLLLLLLPRTRADEHEHTYQKEEVLWMNTVGPVHNRQETKYFSLPFCVGSKSI 66  
QY 61 SHYHETLGEALQGVLEPFGSLDIKFKDDVMPATYCEIDLKEDKADAFVYAIKHHYQMY 120  
DB 67 SHYHETLGEALQGVLEPFGSLDIKFKDDVMPATYCEIDLKEDKADAFVYAIKHHYQMY 126  
QY 121 IDDLPIWGIVEADENGEDYLLWTYKKLEIGFNGNRIVDVNLTSEGGKVLVNTKIQMSY 180  
DB 127 IDDLPIWGIVEADENGEDYLLWTYKKLEIGFNGNRIVDVNLTSEGGKVLVNTKIQMSY 186  
QY 181 SVKWKKSVDKPEDRFDKYLDPSFQHRHWFSEIFNSFMVIFLVGLVSMILMRTLKDYA 240  
DB 187 SVKWKKSVDKPEDRFDKYLDPSFQHRHWFSEIFNSFMVIFLVGLVSMILMRTLKDYA 246  
QY 241 RYSKEEEMDDMDRLDGBEYGHQVGVFRPSSHPLIFSSLISSGCOIFAVSLIIVAM 300  
DB 247 RYSKEEEMDDMDRLDGBEYGHQVGVFRPSSHPLIFSSLISSGCOIFAVSLIIVAM 306  
QY 301 IEDLYTERGSMSTAIIFYAATSPVNGYFGGSLYARQGRRWIKQMFIFGLIPAMVCGT 360  
DB 307 IEDLYTERGSMSTAIIFYAATSPVNGYFGGSLYARQGRRWIKQMFIFGLIPAMVCGT 366  
QY 361 AFFINFIATYHAGRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLGGQNPFCRVNAV 420  
DB 367 AFFINFIATYHAGRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLGGQNPFCRVNAV 426  
QY 421 PRPIPEKKWFMEPAVIVCLGGLPFGSIFIEYFIPTSFWAYKLYYYVGFMMVLVLICI 480  
DB 427 PRPIPEKKWFMEPAVIVCLGGLPFGSIFIEYFIPTSFWAYKLYYYVGFMMVLVLICI 486  
QY 481 VTVCVTIVCTYFLLNAEDYRQWTSFLSAASTAIYVYMYSPYFFKTKMYGLFQTSFYF 540  
DB 487 VTVCVTIVCTYFLLNAEDYRQWTSFLSAASTAIYVYMYSPYFFKTKMYGLFQTSFYF 546

QY 541 GYMAVFSTALGIMCGAIGYMGTSFAVRKIYTNVKID 576  
DB 547 GYMAVFSTALGIMCGAIGYMGTSFAVRKIYTNVKID 582

RESULT 3  
US-09-270-767-32308  
; Sequence 32308, Application US/09270767  
; Patent No. 6703491  
; GENERAL INFORMATION:  
; APPLICANT: Homburger et al.  
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster  
; FILE REFERENCE: File Reference: 7326-094  
; CURRENT APPLICATION NUMBER: US/09/270,767  
; CURRENT FILING DATE: 1999-03-17  
; NUMBER OF SEQ ID NOS: 62517  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 32308  
; LENGTH: 257  
; TYPE: PRT  
; ORGANISM: Drosophila melanogaster  
US-09-270-767-32308

Query Match 35.8%; Score 1107; DB 4; Length 257;  
Best Local Similarity 78.2%; Pred. No. 2e-100;  
Matches 201; Conservative 27; Mismatches 29; Indels 0; Gaps 0;

QY 180 YSVKWKKSVDKPEDRFDKYLDPSFQHRHWFSEIFNSFMVIFLVGLVSMILMRTLKDY 239  
DB 1 YEVNWKPSKVPEKRNFRDKYLDNPFQHRHWFSEIFNSFMVIFLVGLVSMILMRTLKDY 60  
QY 240 ARYSKEEEMDDMDRLDGBEYGHQVGVFRPSSHPLIFSSLISSGCOIFAVSLIIVAM 299  
DB 61 ARYSKDEEIDMDERLDGBEYGHQVGVFRPSSHPLIFSSLISSGCOIFAVSLIIVAM 120  
QY 300 MEDLYTERGSMSTAIIFYAATSPVNGYFGGSLYARQGRRWIKQMFIFGLIPAMVCG 359  
DB 121 IVGELYTERGSMSTAIIFYAATSPVNGYFGGSLYARQGRRWIKQMFIFGLIPAMVCG 180  
QY 360 TAFFINFIATYHAGRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLGGQNPFCRVNA 419  
DB 181 TAFLINFIATYHAGRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLGGQNPFCRVNA 240  
QY 420 VPRPIPEKKWFMEPAVI 436  
DB 241 VPRPIPEKKWFMEPLII 257

RESULT 4  
US-08-959-004-10  
; Sequence 10, Application US/08959004  
; Patent No. 6197543  
; GENERAL INFORMATION:  
; APPLICANT: Hillman, Jennifer L.  
; APPLICANT: Yue, Henry  
; APPLICANT: Corley, Neil C.  
; APPLICANT: Lal, Preeti  
; APPLICANT: Shah, Purvi  
; APPLICANT: Kaser, Matthew  
; TITLE OF INVENTION: HUMAN VESICLE MEMBRANE PROTEIN-LIKE  
; NUMBER OF SEQUENCES: 11  
; CORRESPONDENCE ADDRESS:  
; STREET: 3174 Porter Drive  
; CITY: Palo Alto  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS

```

; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/959,004
; FILING DATE: Herewith
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0414 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-855-0555
; TELEFAX: 650-845-4166
; TELEX:
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 625 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GenBank
; CLONE: 1665777
; US-08-959-004-10

Query Match      30.8%; Score 950.5; DB 3; Length 625;
Best Local Similarity 35.7%; Pred. No. 1.8e-84;
Matches 214; Conservative 100; Mismatches 212; Indels 73; Gaps 11;

QY 42 QETVYKPSLPFCVSGSKSI SHYHETLGEALQGVLEFSGLDIKFKDDVMPATYCE----- 96
DB 36 QLPVEYVSLFPCQPSK--ITYKAENLGEVLGRDVRNTPFQVLMNSEKKCEVLCSQSNKP 93

QY 97 IDLDKEKRDAPVAVAKNHVYQVMYIDLP-----WG1-VG 131
DB 94 VTLTVEQSRLVAERITDYVHLIADNLPLVATRLLEYLSNRDSDKKKEDQVFEHGYRLG 153

QY 132 EAD-----ENGEDYLYMTYK--KLEIGFNGRIVDNLTSSEGVKLV 171
DB 154 FTDVVKIYLNHLIFILYHREDMEEDQHTYRVVRFEVTPQIRLEDLKADEKSSCTLP 213

QY 172 PNT-----KIQMSYVKKKSDVKDEDPDKYLDPSFPQHRJHWFISFNSFW 218
DB 214 EGTNSSPQIEDPTKENQLYFTYSVHWEESDIKWA SRWDYLTMSDVQ--IHWFSIINSVV 271

QY 219 MVIELVGLVSMILMRTLKDYARYSKKEEMDDMDRLGDDEYGNKQVHGDFRPSHPLIF 278
DB 272 VVFLSGILSMIIIRTKDOIANTNKEDDIE---DTMESGWLKLVHGDFRFPQPMIL 327

QY 279 SSLIGSGCQIFAVSLIIVIAMIEDLY--TERGSMLSAIFVYAATSPVNGYFGGSLYARQ 337
DB 328 SSLIGSGIQLFCMLIIVFVAMLGMLSPSSRGALMTTACFLFMFMGVFGGFSAGRLYRTL 387

QY 338 GGRWIKQMFAGLFIAMVCGTAPFNFIATYHASRAIPFGTNVAVCCICFVILPLN 397
DB 388 KGRHWKKGAFCTATLYPGWFGICFVINCFTWGHSSGAVFPFPTMVALLCWFGISLPLV 447

QY 398 LVGRIILGNLSGQNFPCRVNAVPRPIPKKWFMEPAVIVCLGGILPFGSIFITEMYFIPT 457
DB 448 YLGYVYFGRKQPDN--PVRTNQIPRQIPQEWYNNRNVFGILMAGILPFGAMFIELFIFS 506

QY 458 SFWAYKTYVYVGFVMMVLVILCVTVCTVYFLLNABSDYRWQWTSFLSAATAIYVY 517
DB 507 AIWENQFYLFGLFVILVWVSCQISIVMVYFQLCAEDYRWWRNFVLSVSGSAFYVL 566

QY 518 MYSFYVYFFKTKMYGLQTSFYFGYMAVAFSTALGIMCGAIGYMGTSFAVRKIYTNVKID 576
DB 567 VIATIFYFNKLDIVFEIPSLLYFGITADMVLSFWLLITGTIGFYAAYNFVRKIYAAVKID 625

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RESULT 5

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US-08-959-004-5
; Sequence 5, Application US/08959004
; Patent No. 6197543
; GENERAL INFORMATION:
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Yue, Henry
; APPLICANT: Corley, Neil C.
; APPLICANT: Lal, Preeti
; APPLICANT: Shah, Purvi
; APPLICANT: Kaser, Matthew
; TITLE OF INVENTION: HUMAN VESICLE MEMBRANE PROTEIN-LIKE
; TITLE OF INVENTION: PROTEINS
; NUMBER OF SEQUENCES: 11
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/959,004
; FILING DATE: Herewith
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0414 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-855-0555
; TELEFAX: 650-845-4166
; TELEX:
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 663 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: ADRETUT06
; CLONE: 2822412
; US-08-959-004-5

Query Match      27.3%; Score 843.5; DB 3; Length 663;
Best Local Similarity 31.2%; Pred. No. 6.3e-74;
Matches 199; Conservative 120; Mismatches 234; Indels 85; Gaps 16;

QY 9 LLPRTAEDEHETTYQDKKEEVLWMTVGPYHNQETKYVFSLPFCVSGSKSI SHVHETLG 68
DB 41 LAPVNFCEEKSDCKAEIELFVNRDLSVES-VLPYEYTAEDFQOASEG--KRPESENIG 97

QY 69 EALQGVLEFSGLDIKFKDD-----VMPATY-CEIDLDKEKRDAPVAVAKNHVYQVMYID 122
DB 98 QVLFGERIEPSYPKFTFNKCKTCLVCTKTYHTEKAEDKQKLEFLKKSMLNLYQHHWIVD 157

QY 123 DLPI-W-----GIVGEADENGED--YLLWT----- 144
DB 158 NMPVTWCYDVEDQGRFCNPGPIGCIYITDKGHAKDACVISDFHERDFTYIFNHWDIKIY 217

QY 145 YKKLEIGFNGNRIV-----DVALTSEGVKLVNTPKIQMSY 180
DB 218 YHWVTGSGARLVAAKLEPKSFKHTHDKPCSPMDISNKASSEI-----KIATY 271

QY 181 SVKWKSGD-VKPEDRFDKYLDPSFPQHRJHWFISFNSFMMVIFLVGLVSMILMRTLKDY 239

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Db 272 SVSPEEDDKIRWASRDVILBSMPHTH-IQWFSIMNSLIVLFLSGMVAMIMLRLTHKDI 330  
QY 240 ARYKEEEMDDMDRLDGEYQWQVHGDFRPPSHPLIFSLGSGQIIFAVSLIIVIA 299  
Db 331 ARYN---QMDSTE-DAQEEFGKLVHGDIFRPPKGMLLSVFLSGTGIIIMTFVTLFFA 386  
QY 300 MIEDLY-TERGSMLSTALFVVAATSPVNGYFGGSLYARQGRRWIKQWFGAFILPAMVC 358  
Db 387 CLGFLSPANRGAALTCVAVLWVLGTPAGYVAARFYKSGGKWKTNVLTSLFCPIVF 446  
QY 359 GTAFINFIAYHASRAIPGTVMVAVCCICFFVILPLNLVGTILGRNLGQPNFCRVN 418  
Db 447 ADFFIMNLILWEGSSAAIPGTILVAILALWFCISVPLTFIGAYFGFKNAIEH-PVRTN 505  
QY 419 AVPRPIPEKWFMPAPVAVLGGILPGSFIEMVFIPTSFWAYKIYVYVGFMMVLVIL 478  
Db 506 QIPQIPEQSYYKPLPGIINGGILPGCIPFIOFFILNSHQMYYMFGFLFVFIIL 565  
QY 479 CIVTCVITVCTYFLNADRYWQWTSFLSAASTAIYVYYSFYFFKTKMYGLFOTSF 538  
Db 566 VITCSEATILCYPHLCAEDYHQMWSFLTSFTAVYFLIYAVHYFFSKLQITGTASTIL 625  
QY 539 YFGYMAVFSTALGMCNAGYWGTSFAVRKIYTNVKID 576  
Db 626 YFGYTMIMVLIFLFTGTIGFFACFWFVTKIYSVVKVD 663

## RESULT 6

US-08-959-004-11  
; Sequence 11, Application US/08953004  
; Patent No. 6197543  
; GENERAL INFORMATION:  
; APPLICANT: Hillman, Jennifer L.  
; APPLICANT: Yue, Henry  
; APPLICANT: Corley, Neil C.  
; APPLICANT: Lal, Preeti  
; APPLICANT: Shah, Purvi  
; APPLICANT: Kaser, Matthew  
; TITLE OF INVENTION: HUMAN VESICLE MEMBRANE PROTEIN-LIKE  
; TITLE OF INVENTION: PROTEINS  
; NUMBER OF SEQUENCES: 11  
; CORRESPONDENCE ADDRESS:  
; ADDRESS: Incyte Pharmaceuticals, Inc.  
; STREET: 3174 Porter Drive  
; CITY: Palo Alto  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/959,004  
; FILING DATE: Herewith  
; CLASSIFICATION: 514  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Billings, Lucy J.  
; REGISTRATION NUMBER: 36,749  
; REFERENCE/DOCKET NUMBER: PP-0414 US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 650-855-0555  
; TELEFAX: 650-845-4166  
; TELEX:  
; INFORMATION FOR SEQ ID NO: 11:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 667 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single

; TOPOLOGY: linear  
; IMMEDIATE SOURCE:  
; LIBRARY: GenBank  
; CLONE: 2131246  
; US-08-959-004-11  
Query Match 22.5%; Score 694; DB 3; Length 667;  
Best Local Similarity 27.0%; Pred. No. 3.1e-59;  
Matches 175; Conservative 116; Mismatches 254; Indels 102; Gaps 14;  
QY 21 TYQDEEVVWLVNTVGP---YHNRQE-----TYKPSLDFCVGSKSISHY 63  
Db 32 TYRENDNIPLLVNHLTPSNYQHDEGNNVSGDKENFLYSYDYNNRHFHCQPEKVEKQ 91  
QY 64 HETLGEALQGVLEBSGLDIFKDDVMPATYCEIDLDKEKEDAFVYAIKNHYWYQMYIDD 123  
Db 92 PESLSGVIFGDRIYNSPQLNMLQKECESLCKTVIPGDDAKFINKLIKNGFFQNWLLDG 151  
QY 124 LP-----TWGIVGEADENGEDYYLWT-----YK 146  
Db 152 LPAAREVVDGRTKTSFYGAGNLFQVQTQGTDEATPKGAETTDKQVELETRNDRNMVK 211  
QY 147 KLEIGFNGNR---IVDVNLTSEGKVKLV-----PNT----- 174  
Db 212 TYELFYFANHFDMIEYHDRGEGNVRVGVIVEPVSIKSSPGTCETTGSLMDEGNDN 271  
QY 175 KIOMSYVKKKSDVKFEDRFDKYL---DPSFFQHRHWFHIFNSFMVVFVGLVLSMIL 231  
Db 272 EYVFTYVSKFNBESATSWATRWCKYLVHYDPS-----IQWFSLINFSLVVLLSSVVIHSL 326  
QY 232 METLRKDYARYSKEEEMDDMDRLDGEYQWQVHGDFRPPSHPLIFSLGSGQIIFAV 291  
Db 327 LEALKSDFARYN-EUNLDD---DFOEDSGWKLNHGDFRSPSQSLTUSILVSGVQLFLM 382  
QY 292 SLIIVIVAMIEDLY-TERGSMLSTAFVYAATSPVNGYFGGSLYARQGRRWIKQWFGA 350  
Db 383 VTCISIFFAALGFLSPSSRGSLATVMFIYALFGFVGSYTSNGIYKFFNGPVYKANLILTP 442  
QY 351 FLIPAMVCGTAPFINFIAYHASRAIPGTVMVAVCCICFFVILPLNLVGTILGRNLGSGQ 410  
Db 443 LLVPGAIIILIIALNFFLMFVHSSGVI PASTLFFFMVLFMLFSLPSFAGSLIARKCHW 502  
QY 411 PNFPCRNVAVPRPIPEKWFMPAPVAVLGGILPGSFIEMVFIPTSFWAYKIYVYVGF 470  
Db 503 DEHPKTNQIARQIPFPQPVYIKTPATLIAGIFFPGSIATVELYFIYISLWFKIFYMEGF 562  
QY 471 MMLVLVILCIVTCVITVCTYFLNADRYWQWTSF-LSAASTAIYVYVYVYVYVYVYVYV 529  
Db 563 LFFSFLLLTSLTSSLVTLITLTYHSLCLENKRWQWRGFIIGGAGCALYVFIHSI--LFTKFK 620  
QY 530 MYGLFQTSFYFGYMAVFSTALGIMCGAIGYMGTSFAVRKIYTNVKID 576  
Db 621 IGGFTTIVLYGVYSSVLSLLCLVTGSLGFISSMLFVRKIYSSIKVD 667

## RESULT 7

US-09-270-767-44213  
; Sequence 44213, Application US/09270767  
; Patent No. 6703491  
; GENERAL INFORMATION:  
; APPLICANT: Homburger et al.  
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster  
; FILE REFERENCE: File Reference: 7326-094  
; CURRENT APPLICATION NUMBER: US/09/270,767  
; CURRENT FILING DATE: 1999-03-17  
; NUMBER OF SEQ ID NOS: 62517  
; SOFTWARE: Patentin Ver. 2.0  
; SEQ ID NO 44213  
; LENGTH: 133  
; TYPE: PRT  
; ORGANISM: Drosophila melanogaster  
; US-09-270-767-44213



```
Query Match      20.3%; Score 628; DB 4; Length 133;
Best Local Similarity 83.5%; Pred. No. 8.9e-54; Indels 0; Gaps 0;
Matches 111; Conservative 14; Mismatches 8;

Qy 444 PFGSIFTEMFIPTSFWAYKIYYVYGFMLLVILCIIVTCVITVCTYFLLNAEDYRWQW 503
Db 1 PFGSIFTEMFIPTSFWAYKIYYVYGFMLLVFSILTVTVTCVITVCTYFLLNAEDYRWQW 60

Qy 504 TSFLSAASTAIYVMYGFYFFKTKMYGLFQTSFYFGYMAVFTALGIMCGAIGYMGTS 563
Db 61 TSFMAAGSTIYVAYSFYFFKTKMFLFQTAIFYGYMALFSGALGIICGTGVYVGTN 120

Qy 564 AFVRKIYTNVKID 576
Db 121 LFVRKIYSNVKID 133

RESULT 8
US-09-270-767-59636
; Sequence 59636, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270.767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 59636
; LENGTH: 133
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-09-270-767-59636

Query Match      20.3%; Score 628; DB 4; Length 133;
Best Local Similarity 83.5%; Pred. No. 8.9e-54; Indels 0; Gaps 0;
Matches 111; Conservative 14; Mismatches 8;

Qy 444 PFGSIFTEMFIPTSFWAYKIYYVYGFMLLVILCIIVTCVITVCTYFLLNAEDYRWQW 503
Db 1 PFGSIFTEMFIPTSFWAYKIYYVYGFMLLVFSILTVTVTCVITVCTYFLLNAEDYRWQW 60

Qy 504 TSFLSAASTAIYVMYGFYFFKTKMYGLFQTSFYFGYMAVFTALGIMCGAIGYMGTS 563
Db 61 TSFMAAGSTIYVAYSFYFFKTKMFLFQTAIFYGYMALFSGALGIICGTGVYVGTN 120

Qy 564 AFVRKIYTNVKID 576
Db 121 LFVRKIYSNVKID 133

RESULT 9
US-09-513-999C-7579
; Sequence 7579, Application US/09513999C
; Patent No. 6783961
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Duclert, A.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; FILE REFERENCE: 59.US.2.82
; CURRENT APPLICATION NUMBER: US/09/513.999C
; CURRENT FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/122,487
; PRIOR FILING DATE: 1999-02-26
; NUMBER OF SEQ ID NOS: 36681
; SOFTWARE: Patent.pm
; SEQ ID NO 7579
; LENGTH: 111
; TYPE: PRT
; ORGANISM: Homo sapiens
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US-09-513-999C-7579

Query Match      19.8%; Score 613; DB 4; Length 111;
Best Local Similarity 100.0%; Pred. No. 2e-52; Indels 0; Gaps 0;
Matches 111; Conservative 0; Mismatches 0;

Qy 32 MNTVGPYHNROQTYKYFSLPFCVGSKKSISHYHETLGEALQGVLEFSLDIKFKDDVWP 91
Db 1 MNTVGPYHNROQTYKYFSLPFCVGSKKSISHYHETLGEALQGVLEFSLDIKFKDDVWP 60

Qy 92 ATYCIDLDKDKRDADFVAIAKNHWYQMYIDDLPIWGIVGADENGEDYYL 142
Db 61 ATYCIDLDKDKRDADFVAIAKNHWYQMYIDDLPIWGIVGADENGEDYYL 111

RESULT 10
US-09-270-767-46281
; Sequence 46281, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270.767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 46281
; LENGTH: 218
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-09-270-767-46281

Query Match      18.8%; Score 580; DB 4; Length 218;
Best Local Similarity 63.3%; Pred. No. 9.6e-49; Indels 4; Gaps 1;
Matches 105; Conservative 20; Mismatches 37;

Qy 2 AWWLLLLL----LPTRADEHEHTYQDKBEVVLWNTVGPYHNROETKYFSLPFCVGSK 57
Db 53 AICLCILLIASCYVLSQADEHHNKYNDREVVVLWNTVGPYHNROETKYFSLPFCVGSK 112

Qy 58 KSISHYHETLGEALQGVLEFSGLDIKFKDDVMPATYCEIDLDKDKRDADFVAIAKNHWY 117
Db 113 SSISHYHETLGEALQGVLEFSGYEMEFKSDAPKSVICWVTLQESAKAFYIAVKNHWY 172

Qy 118 QMYIDDLPIWGIVGADENGEDYYLWTKLEIGFNGNRIVDVNLT 163
Db 173 QMYIDGLPIWGVGERDGRDGKYIFTTHKKFDIGYNGQOIVDITLT 218

RESULT 11
US-09-248-796A-20311
; Sequence 20311, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Weinstock et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICANS
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: 1999-02-12
; PRIOR FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 20311
; LENGTH: 241
; TYPE: PRT
; ORGANISM: Candida albicans
US-09-248-796A-20311

Query Match      15.1%; Score 467; DB 4; Length 241;
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Best Local Similarity 37.3%; Pred. No. 1.4e-37;  
Matches 91; Conservative 50; Mismatches 91; Indels 12; Gaps 4;  
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DB 5 GGDNWKLMFLTPVLVPGILSLVFVNLNFFLISVQSSGAIHMGTMFAIVLWFIISIPLS 64  
QY 398 LVGTILGRNLGQP--NPPCRVNAVPRPIPEKKMFEPVAVICLGGILPFGSIFIEMYFI 455  
DB 65 VIGSILAN---RPLSVPTNTOIPQIPQIPVILSTIPVWFSIGFPPGSAVENMYFI 121  
QY 456 FTSPWAYKIYVYGPMMLVLVILCIVTVCTVITVYLLNAEDYRWQWTSFLSAASTAIY 515  
DB 122 YSSWENKIFWYFPGFLPFCFIMLTSLIIMTYTLCSENYKQWKSLFVGGGCAIY 181  
QY 516 VYMSFYVYFFKT---KMYGLFQTSFVGYVAVFSTALGIMCGAIGYMGTSAFVRKIYTN 572  
DB 182 VFHS-----FPLTGEKFGFSSVLVYSGYGAIVISLLVFLCCGSIGFISSLIFFVRLIYQG 237  
QY 573 VKID 576  
DB 238 IKID 241

RESULT 12  
US-09-513-999C-7785  
; Sequence 7785, Application US/09513999C  
; Patent No. 6783961  
; GENERAL INFORMATION:  
; APPLICANT: Dumas Milne Edwards, J.B.  
; APPLICANT: Duclert, A.  
; APPLICANT: Giordano, J.Y.  
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.  
; FILE REFERENCE: 59 US2, REG  
; CURRENT APPLICATION NUMBER: US/09/513,999C  
; CURRENT FILING DATE: 2000-02-24  
; PRIOR APPLICATION NUMBER: US 60/122,487  
; PRIOR FILING DATE: 1999-02-26  
; NUMBER OF SEQ ID NOS: 36681  
; SOFTWARE: Patent.pm  
; SEQ ID NO 7785  
; LENGTH: 87  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; NAME/KEY: UNSURE  
; LOCATION: 2  
; OTHER INFORMATION: Xaa=Lys or Met or Arg or Thr

FEATURE:  
NAME/KEY: UNSURE  
LOCATION: 55  
OTHER INFORMATION: Xaa=Ala or Asp or Gly or Val  
FEATURE:  
NAME/KEY: UNSURE  
LOCATION: 73  
OTHER INFORMATION: Xaa=Ala or Asp  
FEATURE:  
NAME/KEY: UNSURE  
LOCATION: 74  
OTHER INFORMATION: Xaa=Lys or Thr  
US-09-513-999C-7785

Query Match 11.8%; Score 364; DB 4; Length 87;  
Best Local Similarity 91.1%; Pred. No. 4.2e-28;  
Matches 72; Conservative 0; Mismatches 7; Indels 0; Gaps 0;  
QY 251 MDRDLGDEYGWKQVHGVDVFRPSSHLIFSSLGSGCQIFAVSLIIVAMIEDLYTERGS 310  
DB 3 MDRDLGDEYGWKQVHGVDVFRPSSHLIFSSLGSGCQIFAVSLIIVAMIEIXTERGS 62  
QY 311 MLSTAIFVYVATSPVNGVF 329  
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Db 63 MLSTAIFVYVAXXSPSEWLF 81  
RESULT 13  
US-09-583-110-4773  
; Sequence 4773, Application US/09583110  
; Patent No. 6699703  
; GENERAL INFORMATION:  
; APPLICANT: Lynn Doucette-Stamm et al.  
; TITLE OF INVENTION: Nucleic Acid and Amino Acid Sequences Relating to Streptococcus  
; FILE REFERENCE: PATH00-07A  
; CURRENT APPLICATION NUMBER: US/09/583,110  
; CURRENT FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: US 09/107,433  
; PRIOR FILING DATE: 1998-06-30  
; PRIOR APPLICATION NUMBER: US 60/085,131  
; PRIOR FILING DATE: 1998-05-12  
; PRIOR APPLICATION NUMBER: US 60/051,553  
; PRIOR FILING DATE: 1997-07-02  
; NUMBER OF SEQ ID NOS: 5322  
; SEQ ID NO 4773  
; LENGTH: 605  
; TYPE: PRT  
; ORGANISM: Streptococcus pneumoniae  
US-09-583-110-4773

Query Match 4.1%; Score 127; DB 4; Length 605;  
Best Local Similarity 19.8%; Pred. No. 0.0014;  
Matches 73; Conservative 60; Mismatches 117; Indels 118; Gaps 17;  
QY 203 FQQRHWHFSPNSMMVIFLVGLVSMILMTLRKDYARYSKBEEMDDMDRLDGEVY-- 260  
DB 64 FPRRR-----FYRIVPEVLMVLVTPFTFLVRQDYV-----AGICGQIASV 105  
QY 261 -----WKQVHGDFRPSHPLIFSSLGSGCQIFAVSLIIVAMIEDLYTERGMSLS 313  
DB 106 LGFMNFYELLTGGSYESQFPHLPVHNWSLAVEHYVILGLAVWFL-STHAKSNGOLK 164  
QY 314 TAIFVYAATSPVNGVYFGGSLYARQGRWIKOMFAGLIPAMVCGTAFFNFIAIYHA 373  
DB 165 GNVFLLSAVAFLLISFF-----SMFISGLVTSY--SSVYFSSLTHVY--- 204  
QY 374 SRAIPF--GTWAVCCICFFVILPLNLVG---TILGRNLSSQPNFPCRVNAVRPIPEK 427  
DB 205 -----PFFLGSMLA-----TIVGVROTSLVKQL-----DK 230  
QY 428 KWFMEPAVIVCLGGILPFGSIFIEMYFI-FTSPWAYKIYVYVGMMLVILCIVTVCVT 486  
DB 231 IWDLRKTLVVFGGG--FGFLVLLTFFVKFTYLFAYLI---GFLASLAALAMILAA-- 281  
QY 487 IVCTYFLNADYRWQ---WTSFLSAASTAIYVYMSFYVYFFXTK-----MY 531  
DB 282 -----RVLHEKTHHQEPKIIISFLADTSYAVLFHPWFFIIFSQTSNLLAVLLTLCYS 336  
QY 532 GLFQTSFY 539  
DB 337 GFASLSFY 344

RESULT 14  
US-09-543-681A-8279  
; Sequence 8279, Application US/09543681A  
; Patent No. 6605709  
; GENERAL INFORMATION:  
; APPLICANT: GARY BERTON  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABIL  
; FILE REFERENCE: 2709.1002-001  
; CURRENT APPLICATION NUMBER: US/09/543,681A  
; CURRENT FILING DATE: 2000-04-05  
; PRIOR APPLICATION NUMBER: US 60/128,706  
; PRIOR FILING DATE: 1999-04-09

Db 67 AVHNIIR-----ALIYAITSEFLVIYLVAYMVQLHTNRFYFILS--FVLM 109



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OM protein - protein search, using sw model

Run on: November 17, 2004, 17:17:22 ; Search time 108.39 Seconds  
(without alignments)  
1881.882 Million cell updates/sec

Title: US-09-319-724b-14  
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Sequence: 1 AALWMLLLPRTRADEHEH.....IGYMGTSFVRKIYTNVKID 576

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1570615 seqs, 354127592 residues

Total number of hits satisfying chosen parameters: 1570615

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

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16: /cgn2\_6/ptodata/2/pubpaa/US10D\_PUBCOMB.pep.\*  
17: /cgn2\_6/ptodata/2/pubpaa/US10\_NEW\_PUB.pep.\*  
18: /cgn2\_6/ptodata/2/pubpaa/US11\_NEW\_PUB.pep.\*  
19: /cgn2\_6/ptodata/2/pubpaa/US60\_NEW\_PUB.pep.\*  
20: /cgn2\_6/ptodata/2/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2916	94.4	545	10	US-09-374-046A-26
2	2916	94.4	545	15	US-10-616-263-26
3	2187	70.8	530	14	US-10-205-219-121
4	1744.5	56.5	596	17	US-10-425-115-325471
5	1744	56.5	617	16	US-10-437-963-141888
6	1738.5	56.3	594	16	US-10-767-701-44284
7	1736	56.2	595	17	US-10-425-115-325582
8	1716	55.6	596	16	US-10-437-963-116913
9	1712	55.4	595	17	US-10-739-930-9909
10	1636.5	53.0	576	15	US-10-425-114-66140
11	1635.5	52.9	552	17	US-10-425-115-286624
12	1430.5	46.3	500	17	US-10-425-115-206340
13	1313	42.5	424	16	US-10-427-963-103141

14	1153.5	37.3	592	15	US-10-424-599-174369	Sequence 174369,
15	1143	37.0	692	17	US-10-425-115-202293	Sequence 202293,
16	1142	37.0	627	15	US-10-425-114-42573	Sequence 42573, A
17	1129	36.5	623	15	US-10-425-114-62405	Sequence 62405, A
18	1128	36.5	624	15	US-10-425-114-45661	Sequence 45661, A
19	1128	36.5	647	15	US-10-424-599-204944	Sequence 204944, A
20	1126.5	36.5	595	16	US-10-767-701-45514	Sequence 45514, A
21	1125.5	36.4	589	17	US-10-425-115-359244	Sequence 359244, A
22	1115	36.1	594	17	US-10-739-930-11084	Sequence 11084, A
23	1115	36.1	645	17	US-10-739-930-11074	Sequence 11074, A
24	1099	35.6	627	16	US-10-437-963-120941	Sequence 120941,
25	1037	33.6	893	16	US-10-437-963-177000	Sequence 177000,
26	1022	33.1	820	16	US-10-437-963-165390	Sequence 165390,
27	983.5	31.8	341	15	US-10-424-599-246293	Sequence 246293,
28	950.5	30.8	625	14	US-10-394-136-54	Sequence 54, Appl
29	950.5	30.8	642	14	US-10-201-964-1	Sequence 1, Appl
30	944	30.6	606	14	US-10-050-704-108	Sequence 108, App
31	944	30.6	606	16	US-10-798-512-108	Sequence 108, App
32	917.5	29.7	559	17	US-10-739-930-10304	Sequence 10304, A
33	898.5	29.1	642	16	US-10-437-963-150528	Sequence 150528,
34	897	29.0	637	15	US-10-424-599-218357	Sequence 218357,
35	883	28.6	639	17	US-10-425-115-193953	Sequence 193953,
36	878	28.4	637	15	US-10-424-599-197142	Sequence 197142,
37	876	28.4	639	17	US-10-425-115-194452	Sequence 194452,
38	871.5	28.2	646	16	US-10-437-963-136356	Sequence 136356,
39	870	28.2	639	17	US-10-425-115-194454	Sequence 194454,
40	867	28.1	253	17	US-10-425-115-206342	Sequence 206342,
41	861	27.9	659	16	US-10-437-963-128426	Sequence 128426,
42	854	27.6	237	15	US-10-425-114-37646	Sequence 37646, A
43	849.5	27.5	590	16	US-10-437-963-198730	Sequence 198730,
44	847.5	27.4	513	15	US-10-424-599-195511	Sequence 195511,
45	846	27.4	670	17	US-10-739-930-10578	Sequence 10578, A

ALIGNMENTS

RESULT 1  
US-09-374-046A-26  
; Sequence 26, Application US/09374046A  
; Publication NO. US20030096951A1  
; GENERAL INFORMATION:  
; APPLICANT: Jacobs, Kenneth  
; APPLICANT: McCoy, John M.  
; APPLICANT: LaVallie, Edward R.  
; APPLICANT: Collins-Racie, Lisa A.  
; APPLICANT: Evans, Cheryl  
; APPLICANT: Merberg, David  
; APPLICANT: Treacy, Maurice  
; APPLICANT: Acostino, Michael J.  
; APPLICANT: Steinger II, Robert J.  
; APPLICANT: Spaulding, Vikki  
; APPLICANT: Wong, Gordon G.  
; APPLICANT: Clark, Hilary  
; APPLICANT: Fectel, Kim  
; APPLICANT: Genetics Institute, Inc.  
; TITLE OF INVENTION: SECRETED PROTEINS AND POLYNUCLEOTIDES ENCODING THEM  
; FILE REFERENCE: GI 6075-83A  
; CURRENT APPLICATION NUMBER: US/09/374,046A  
; CURRENT FILING DATE: 1999-08-13  
; NUMBER OF SEQ ID NOS: 240  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 26  
; LENGTH: 545  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-374-046A-26

Query Match 94.4%; Score 2916; DE 10; Length 545;  
Best Local Similarity 99.8%; Pred. No. 8.7e-263;  
Matches 544; Conservative 1; Indels 0; Gaps 0;

QY 32 MATVGFYHNRQTYKYFLPCVGVGSKSIHSHVHETLGEALQGVLEFSGLDIKFKDDVMP 91

Db 1 MNTVGPYHNRQETKYFSLPFCVSGSKSISHYHETLGEALQGVLEFSGLDIKFKDDVMP 60  
 QY 92 ATYCEIDLDKEKRDPAFVVAIKNHVYQWYIDDLPIWGIWGEADENGEDYVLTWYKKLEIG 151  
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 QY 152 FNGNRIVDNLTSEGKVLVNTKIQMSYSVKKWKSVDKPEDRDYLDPSFFQHRHWF 211  
 Db 121 FNGNRIVDNLTSEGKVLVNTKIQMSYSVKKWKSVDKPEDRDYLDPSFFQHRHWF 180  
 QY 212 SIFNSFMVIFLVGLVSMILMRTLRKDYARYSKEEEMDDMDRDLGDEYQWQVHGDVFRP 271  
 Db 181 SIFNSFMVIFLVGLVSMILMRTLRKDYARYSKEEEMDDMDRDLGDEYQWQVHGDVFRP 240  
 QY 272 SSHPLIFSLIGSGCQIFAVSLIIVIAMIEDLYTERGSMSTAI FVYAATSPVNGYFGG 331  
 Db 241 SSHPLIFSLIGSGCQIFAVSLIIVIAMIEDLYTERGSMSTAI FVYAATSPVNGYFGG 300  
 QY 332 SLYAQGGRRWTKQMFICAPLIPAMVCGTAPFNFIAIYYHASRAIPFGTMVAVCCICFF 391  
 Db 301 SLYAQGGRRWTKQMFICAPLIPAMVCGTAPFNFIAIYYHASRAIPFGTMVAVCCICFF 360  
 QY 392 VILPLNLVGTILGRNLGQPNPCRVNAVPRPIPEKKWFMPEPAVIVCLGGILPFGSIFIE 451  
 Db 361 VILPLNLVGTILGRNLGQPNPCRVNAVPRPIPEKKWFMPEPAVIVCLGGILPFGSIFIE 420  
 QY 452 MYFIETSWAYKIYYVYGFMMVLVILCIIVCTVITVCTYFLLNAEDYRWQWTSFSLAAS 511  
 Db 421 MYFIETSWAYKIYYVYGFMMVLVILCIIVCTVITVCTYFLLNAEDYRWQWTSFSLAAS 480  
 QY 512 TAIYVYMSFYFFKTKWYGLFQTSFYFGYMAVFSALGIMCGAIGYMGTSAFVRKIYT 571  
 Db 481 TAIYVYMSFYFFKTKWYGLFQTSFYFGYMAVFSALGIMCGAIGYMGTSAFVRKIYT 540  
 QY 572 NVKID 576  
 Db 541 NVKID 545

RESULT 2  
 US-10-616-263-26  
 ; Sequence 26, Application US/10616263  
 ; Publication No. US20040038276A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Jacobs, Kenneth  
 ; APPLICANT: McCoy, John M.  
 ; APPLICANT: LaValle, Edward R.  
 ; APPLICANT: Collins-Racie, Lisa A.  
 ; APPLICANT: Evans, Cheryl  
 ; APPLICANT: Merberg, David  
 ; APPLICANT: Treacy, Maurice  
 ; APPLICANT: Agostino, Michael J.  
 ; APPLICANT: Steininger II, Robert J.  
 ; APPLICANT: Spaulding, Vikki  
 ; APPLICANT: Wong, Gordon G.  
 ; APPLICANT: Clark, Hilary  
 ; APPLICANT: Fechtel, Kim  
 ; APPLICANT: Genetics Institute, Inc.  
 ; TITLE OF INVENTION: SECRETED PROTEINS AND POLYNUCLEOTIDES ENCODING THEM  
 ; FILE REFERENCE: 00766.000103.5  
 ; CURRENT APPLICATION NUMBER: US/10/616.263  
 ; PRIOR FILING DATE: 2003-07-08  
 ; NUMBER OF SEQ ID NOS: 240  
 ; SOFTWARE: PatentIn Ver. 2.0  
 ; SEQ ID NO 26  
 ; LENGTH: 545  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 US-10-616-263-26

Query Match 94.4%; Score 2916; DB 15; Length 545;  
 Best Local Similarity 99.8%; Pred. No. 8.7e-263;

Matches 544; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
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 Db 1 MNTVGPYHNRQETKYFSLPFCVSGSKSISHYHETLGEALQGVLEFSGLDIKFKDDVMP 60  
 QY 92 ATYCEIDLDKEKRDPAFVVAIKNHVYQWYIDDLPIWGIWGEADENGEDYVLTWYKKLEIG 151  
 Db 61 ATYCEIDLDKEKRDPAFVVAIKNHVYQWYIDDLPIWGIWGEADENGEDYVLTWYKKLEIG 120  
 QY 152 FNGNRIVDNLTSEGKVLVNTKIQMSYSVKKWKSVDKPEDRDYLDPSFFQHRHWF 211  
 Db 121 FNGNRIVDNLTSEGKVLVNTKIQMSYSVKKWKSVDKPEDRDYLDPSFFQHRHWF 180  
 QY 212 SIFNSFMVIFLVGLVSMILMRTLRKDYARYSKEEEMDDMDRDLGDEYQWQVHGDVFRP 271  
 Db 181 SIFNSFMVIFLVGLVSMILMRTLRKDYARYSKEEEMDDMDRDLGDEYQWQVHGDVFRP 240  
 QY 272 SSHPLIFSLIGSGCQIFAVSLIIVIAMIEDLYTERGSMSTAI FVYAATSPVNGYFGG 331  
 Db 241 SSHPLIFSLIGSGCQIFAVSLIIVIAMIEDLYTERGSMSTAI FVYAATSPVNGYFGG 300  
 QY 332 SLYAQGGRRWTKQMFICAPLIPAMVCGTAPFNFIAIYYHASRAIPFGTMVAVCCICFF 391  
 Db 301 SLYAQGGRRWTKQMFICAPLIPAMVCGTAPFNFIAIYYHASRAIPFGTMVAVCCICFF 360  
 QY 392 VILPLNLVGTILGRNLGQPNPCRVNAVPRPIPEKKWFMPEPAVIVCLGGILPFGSIFIE 451  
 Db 361 VILPLNLVGTILGRNLGQPNPCRVNAVPRPIPEKKWFMPEPAVIVCLGGILPFGSIFIE 420  
 QY 452 MYFIETSWAYKIYYVYGFMMVLVILCIIVCTVITVCTYFLLNAEDYRWQWTSFSLAAS 511  
 Db 421 MYFIETSWAYKIYYVYGFMMVLVILCIIVCTVITVCTYFLLNAEDYRWQWTSFSLAAS 480  
 QY 512 TAIYVYMSFYFFKTKWYGLFQTSFYFGYMAVFSALGIMCGAIGYMGTSAFVRKIYT 571  
 Db 481 TAIYVYMSFYFFKTKWYGLFQTSFYFGYMAVFSALGIMCGAIGYMGTSAFVRKIYT 540  
 QY 572 NVKID 576  
 Db 541 NVKID 545

RESULT 3  
 US-10-205-219-121  
 ; Sequence 121, Application US/10205219  
 ; Publication No. US20030138803A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Warner-Lambert Company  
 ; APPLICANT: Lee, Kevin  
 ; APPLICANT: Dixon, Allstair  
 ; APPLICANT: Brooksbank, Robert  
 ; APPLICANT: Pincock, Robert  
 ; TITLE OF INVENTION: Identification and Use of Molecules Implicated in Pain  
 ; FILE REFERENCE: WL-A-018200  
 ; CURRENT APPLICATION NUMBER: US/10/205,219  
 ; PRIOR FILING DATE: 2002-07-24  
 ; PRIOR APPLICATION NUMBER: GB 0118354.0  
 ; PRIOR FILING DATE: 2001-07-27  
 ; NUMBER OF SEQ ID NOS: 197  
 ; SOFTWARE: PatentIn Ver. 2.1  
 ; SEQ ID NO 121  
 ; LENGTH: 530  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; OTHER INFORMATION: EP70-P-iso  
 US-10-205-219-121

Query Match 70.8%; Score 2187; DB 14; Length 530;  
 Best Local Similarity 80.9%; Pred. No. 8e-195;  
 Matches 436; Conservative 12; Mismatches 51; Indels 40; Gaps 7;

QY 1 AALWLLLLLPRTRADEHEHTYQDKBEVVLWMNTVGPYHNROBTYKYFSLPFCVGSKKSI 60  
 Db 13 AALWLLLLLPRTRADEHEHTYQDKBEVVLWMNTVGPYHNROBTYKYFSLPFCVGSKKSI 72  
 QY 61 SHVHETLGEALQVELEFSGLDIKFKDDVNPATYCEIDLDKXRDADFVAIKKHYYQMY 120  
 Db 73 SHVHETLGEALQVELEFSGLDIKFKDDVNPATYCEIDLDKXRDADFVAIKKHYYQMY 132  
 QY 121 IDDLPIWGIAGEADENGEDYYLWTKYKLEIGFNGNRIVDVNLTSEGVKVL---VPNTKIQ 177  
 Db 133 IDDLPIWGIAGEADENGEDYYLWTKYKLEIGFNGNRIVDVNLTSEGVKVLGSYYNPDI 192  
 QY 178 MSYSVKWKKSDVPEDFDKYLDPSFQHRHWFSPNSFMVIFLVGLVSMILMTLTK 237  
 Db 193 FS---KMEKSDVPEDFDNIL-IVLFSHRHWFSPNSFMVIFLVGLVSMILMTLTK 248  
 QY 238 DYARYSKEEMDDMDRDLGDEYGMQVHGDVFPSPSSHPLIFSSLGSGCOIFAVSLVII 297  
 Db 249 DYARYSKEEMDDMDRDLGDEYGMQVHGDVFPSPSSHPLIFSSLGSGCOIFAVSLVII 308  
 QY 298 VAMIEDLYTERGSMSTAIFYAATSPVNGYFGSILYAROGGRWIKOMPIGAFILPAMV 357  
 Db 309 VAMIEDLYTERGSMSTAIFYAATSPVNGYFGSILYAROGGRWIKOMPIGAFILPAM- 367  
 QY 358 CGTAFFINFATYVHASRAIPFGTMVAVCCICPEVILPLNLVGTILGRNLSGQNPFCRV 417  
 Db 368 -----GVHCLLHQPH-SHLLP-----CFKSHSFVWNGRLHLHLPFCYSSKSCWY 411  
 QY 418 NAVPRPIPE-----KKWFMEPAVIVCLGGLPFGSIFIMYFIFTSFWA 461  
 Db 412 NTWPKSVRSAGLSLSCQCCASSYTGKXWVHGAIVIVCLGGLPFGSIFIMYFIFTSFWA 471  
 QY 462 KYIYVYVGFMMVLVILCIYVCTVICTYFLLNAEDYRWQNTSFLSAASTAIYVWYMS 520  
 Db 472 KYIYVYVGFMMVLVILCIYVCTVICTYFLLNAEDYRWQNTSFLSAASTAIYVWYMS 530

RESULT 4  
 US-10-425-115-325471  
 ; Sequence 325471, Application US/10425115  
 ; Publication No. US20040214272A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: La Rosa, Thomas J.  
 ; APPLICANT: Kovalic, David K.  
 ; APPLICANT: Zhou, Yihua  
 ; APPLICANT: Cao, Yongwei  
 ; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With  
 ; FILE REFERENCE: 38-21(53222)B  
 ; CURRENT APPLICATION NUMBER: US/10/425,115  
 ; CURRENT FILING DATE: 2003-04-28  
 ; NUMBER OF SEQ ID NOS: 369326  
 ; SEQ ID NO 325471  
 ; LENGTH: 596  
 ; TYPE: PRT  
 ; ORGANISM: Zea mays  
 ; FEATURE:  
 ; OTHER INFORMATION: Clone ID: MRT4577\_598C.1.pep  
 US-10-425-115-325471

Query Match 56.5%; Score 1744.5; DB 17; Length 596;  
 Best Local Similarity 56.5%; Pred. No. 1.7e-153;  
 Matches 324; Conservative 96; Mismatches 150; Indels 3; Gaps 3;

QY 6 LLLLLLPRTRADEHEHTYQDKBEVVLWMNTVGPYHNROBTYKYFSLPFCVGSKKSIHYHE 65  
 Db 25 LAALLALASASDHKYTEEPVKLWNVKVGYPYNNPOETNYISLPCQSPENP-THKWG 83  
 QY 66 TLGEALQVELEFSGLDIKFKDDVNPATYCEIDLDKXRDADFVAIKKHYYQMYIDDL 125  
 Db 84 GLGEVLGNNELDSQLEIKFKLWKEKGFICTLELDAKKVQGFADAISSYWFEEFIDDL 143  
 QY 126 IWGIAGEADENGED-YYLWTKYKLEIGFNGNRIVDVNLTSEGVKVLVPNTKIQMSYSVKW 184

Db 144 LMFGVGEDSKKSENKHLYDTHKNILVKNDRIIHNLTQESPKLLEDGKLEMTYSVKM 203  
 QY 185 KKSVDYKFDREDKYLDPSPFQHRHWFSPNSFMVIFLVGLVSMILMRTLRKDYARYSK 244  
 Db 204 VATDVSFARRPEVYLDYPPFEHQIHWFSIFNSFMVIFLTLGLVSMILMRTLRNDYAKYAR 263  
 QY 245 E-BEMDDMDRDLGDEYGMQVHGDVFPSPSSHPLIFSSLGSGCOIFAVSLVIIVAMIED 303  
 Db 264 EDDDLLESURDYNESGKLVHGDVFPSPSSHPLIFSSLGSGCOIFAVSLVIIVAMIED 323  
 QY 304 LYTERGSMSTAIFYAATSPVNGYFGSILYAROGGRWIKOMPIGAFILPAMVCGTAFF 363  
 Db 324 LYIGRGALITTFIVCYALTSIFSGVSGLYSRSGKWKAMVLTASLFPFLCFSIGFM 383  
 QY 364 INFATYVHASRAIPFGTMVAVCCICPEVILPLNLVGTILGRNLSGQNPFCRVNAVPRP 423  
 Db 384 LNTIAIFYSRLAAIPFGTMVAVCCICPEVILPLNLVGTILGRNLSGQNPFCRVNAVPRP 443  
 QY 424 IPEKKWFMEPAVIVCLGGLPFGSIFIMYFIFTSFWAAYKIYVYVGFMMVLVILCIYV 483  
 Db 444 IPEKKWYITPVSIVSLMGGLLPFGSIFIMYFIFTSFWAAYKIYVYVGFMMVLVILCIYV 503  
 QY 484 CVTIYCTYFLLNAEDYRWQNTSFLSAASTAIYVWYMSFYFFKTYGLFQTSFYFGM 543  
 Db 504 CVTIYCTYFLLNAEDYRWQNTSFLSAASTAIYVWYMSFYFFKTYGLFQTSFYFGM 563  
 QY 544 AVFSTALGIMCAIGMGTSAFVRKIYTNVKID 576  
 Db 564 LMFCILGILGALGILGTLFVRRIYRNKID 596

RESULT 5  
 US-10-437-963-141888  
 ; Sequence 141888, Application US/10437963  
 ; Publication No. US20040123343A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: La Rosa, Thomas J.  
 ; APPLICANT: Kovalic, David K.  
 ; APPLICANT: Zhou, Yihua  
 ; APPLICANT: Cao, Yongwei  
 ; APPLICANT: Wu, Wei  
 ; APPLICANT: Boukharov, Andrey A.  
 ; APPLICANT: Barbazuk, Brad  
 ; APPLICANT: Li, Ping  
 ; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With  
 ; FILE REFERENCE: 38-21(53221)B  
 ; CURRENT APPLICATION NUMBER: US/10/437,963  
 ; CURRENT FILING DATE: 2003-05-14  
 ; NUMBER OF SEQ ID NOS: 204966  
 ; SEQ ID NO 141888  
 ; LENGTH: 617  
 ; TYPE: PRT  
 ; ORGANISM: Oryza sativa  
 ; FEATURE:  
 ; OTHER INFORMATION: Clone ID: PAT\_MRT4530\_42949C.1.pep  
 US-10-437-963-141888

Query Match 56.5%; Score 1744; DB 16; Length 617;  
 Best Local Similarity 53.9%; Pred. No. 2e-153;  
 Matches 326; Conservative 99; Mismatches 150; Indels 30; Gaps 4;

QY 1 AALWLLLLLPRTRADEHEHTYQDKBEVVLWMNTVGPYHNROBTYKYFSLPFCVGSKKSI 60  
 Db 14 AAVLLVVFVLAAPLAASDSHKYQSEBKVMWLVNKGYPYNNPOETNYISLPCFCHSPNPV 73  
 QY 61 SHVHETLGEALQVELEFSGLDIKFKDDVNPATYCEIDLDKXRDADFVAIKKHYYQMY 120  
 Db 74 -HKWGLGVLGNNELDSQIDIKFKGRVDKGTICISIELDPKAKQLSDAIESSYWFEEF 132  
 QY 121 IDDLPIWGIAGEADENGED-YYLWTKYKLEIGFNGNRIVDVNLTSEGVKVLVPNTKIQMS 179

Db 133 IDDLPLWGVGADRNNDKVFYLFTHKNIVIRYNGNOIHHVNLTQESPKLIDACKALDMT 192  
QY 180 YSVKWKSDVKDFEDFDKYLDPSPFOHRIHWFSPFNSFMWIFLVGLVSMILMRTLRKY 239  
Db 193 YSVKKEPNVFAHRFDVLDYPPFEHQHWFSPFNSFMWIFITGLVSMILMRTLRNDY 252  
QY 240 ARYSK-EEMDDMDRLDGEYGVKQVHGDVFRPSSHPLIFSSLSGSCQIFAVSLIIV 298  
Db 253 AKYARDDDLLETLDVSEESGKLVHGDVFRPSSRLALLSALVGGGTQISALLIVILL 312  
QY 299 AMIEDLYTERGSMSTAIFVVAATSPVNGYEGGSILYARQGRWIKQMFAGIFLIPAMVC 358  
Db 313 AIGMLYIGRAIVTFIVCALTSFISGYVSGALYSRGGKWKIKAMITASLFFMCF 372  
QY 359 STAFFINFIATYHASRAIPFGTVMVAVCCICFFVILPLNLVGTILGRNLSQGNPFCRVN 418  
Db 373 GIGLVNTIAFYRSLAALPGTVMVVFILWAFISFPLALLGTVVGRNWSGAPNPCRVK 432  
QY 419 AVPRDIPKQWMEPAVIVCLGILPGSIFIEWYFTFTSWAYKIYVYVGFMMVLVLIL 478  
Db 433 TIPRPIKQWYLTSPVIALMGGLPGSIFIEWYFTFTSWAYKIYVYVGFMMVLVLIL 492  
QY 479 CIVTVCTVIVCTYFLNNAEDYRWQWTSFSLAATAIYVYVYFVFTKQVGLFOTSP 538  
Db 493 IIVICVIVCTYFLNNAENYHMQWTSFSLAATAIYVYVYVYVYVYVYVYVYVYVYVYV 552  
QY 539 YFGYMAVFTALGIMC-----CAIGMGTSAFVRKIYT 571  
Db 553 YFGYMAVFTALGIMC-----CAIGMGTSAFVRKIYT 571  
QY 572 NVKID 576  
Db 613 NIKCD 617

RESULT 6  
US-10-767-701-44284  
; Sequence 44284, Application US/10767701  
; Publication No. US20040172684A1  
; GENERAL INFORMATION:  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With  
; TITLE OF INVENTION: Plants and Uses Thereof For Plant Improvement  
; FILE REFERENCE: 38-21(53535)B  
; CURRENT APPLICATION NUMBER: US/10/767,701  
; CURRENT FILING DATE: 2004-01-29  
; NUMBER OF SEQ ID NOS: 63128  
; SEQ ID NO 44284  
; LENGTH: 594  
; TYPE: PRT  
; ORGANISM: Sorghum bicolor  
; FEATURE:  
; NAME/KEY: unsure  
; LOCATION: (1)..(594)  
; OTHER INFORMATION: unsure at all Xaa locations  
; FEATURE:  
; OTHER INFORMATION: Clone ID: SORBI-28MAY03-CL2526\_1.pep  
US-10-767-701-44284

Query Match 56.3%; Score 1738.5; DB 16; Length 594;  
Best Local Similarity 56.5%; Pred. No. 6.3e-153;  
Matches 322; Conservative 97; Mismatches 148; Indels 3; Gaps 3;  
QY 9 LLPRTRADEHHTYODKEEVLVWNTVGPYHNRQTYKYFSLPFCVGSKKSISHYHETLG 68  
Db 26 LLALASASESDHKYKTEEPVKLVNKGVPYNNPQETNYSLPFCQSEN-THKGGJG 84  
QY 69 EALQGVLEFSGLDIKFDKDDYMPATYCEIDLKDKRDAFYVAIKNHYWQYIMDDLPWG 128  
Db 85 EVLGGNELIDSQLEIKFLKNVEKSGICTLELDKAKVQOFADAISSYWFEEFIDDLPLWG 144

QY 129 IYGEADENGED-YYLWTYKKLBIGFNGNRIVDVNLTSKGVKLVNPTNTKIQMSYSYKWKKS 187  
Db 145 FVGETDKNSENKHYLVTHKNILVXYNDNRI IHVNLTQESPKLEDDGKLEMTYSVKWAT 204  
QY 188 DVKEDRPFKYLDPSPFOHRIHWFSPFNSFMWIFLVGLVSMILMRTLRKYARYSKE-E 246  
Db 205 DVSFARFVFLDYPPFEHQHWFSPFNSFMWIFITGLVSMILMRTLRKYARISDD 264  
QY 247 EEMDDMDRLDGEYGVKQVHGDVFRPSSHPLIFSSLSGSCQIFAVSLIIVIAMIEDLYT 306  
Db 265 DLESERDVNESGKLVHGDVFRPSSXVFLSALVIGTQLAALSRLVILVGLMVI 324  
QY 307 ERGSMSTAIFVVAATSPVNGYEGGSILYARQGRWIKQMFAGIFLIPAMVCGTAFIN 366  
Db 325 GRGAITTTIVCALTSFISGYVSGALYSRGGKWKIKAMVLTASLFFPFCFISGALNT 384  
QY 367 IAIYHASRAIPFGTVMVAVCCICFFVILPLNLVGTILGRNLSQGNPFCRVNAVPRPIE 426  
Db 385 IAIYHASRAIPFGTVMVAVCCICFFVILPLNLVGTILGRNLSQGNPFCRVNAVPRPIE 444  
QY 427 KQWMEPAVIVCLGILPGSIFIEWYFTFTSWAYKIYVYVGFMMVLVLILCIVTVCV 486  
Db 445 AKWYLTSPVISMGLPGSIFIEWYFTFTSWAYKIYVYVGFMMVLVLILCIVTVCV 504  
QY 487 IYCTYFLNNAEDYRWQWTSFSLAATAIYVYVYFVFTKQVGLFOTSPFYFGYMAV 546  
Db 505 IYCTYFLNNAEDYRWQWTSFSLAATAIYVYVYFVFTKQVGLFOTSPFYFGYMAV 564  
QY 547 STALGIMCAIGMGTSAFVRKIYTNVKID 576  
Db 565 CLGLGLGCAIGYLGSTLFLVRIENIKCD 594

RESULT 7  
US-10-425-115-325582  
; Sequence 325582, Application US/10425115  
; Publication No. US20040214272A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa, Thomas J.  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With  
; TITLE OF INVENTION: Plants  
; FILE REFERENCE: 38-21(53222)B  
; CURRENT APPLICATION NUMBER: US/10/425,115  
; CURRENT FILING DATE: 2003-04-28  
; NUMBER OF SEQ ID NOS: 369326  
; SEQ ID NO 325582  
; LENGTH: 595  
; TYPE: PRT  
; ORGANISM: Zea mays  
; FEATURE:  
; NAME/KEY: unsure  
; LOCATION: (1)..(595)  
; OTHER INFORMATION: unsure at all Xaa locations  
; FEATURE:  
; OTHER INFORMATION: Clone ID: MRT4577\_599C.1.pep  
US-10-425-115-325582

Query Match 56.2%; Score 1736; DB 17; Length 595;  
Best Local Similarity 56.4%; Pred. No. 1.1e-152;  
Matches 324; Conservative 95; Mismatches 151; Indels 4; Gaps 4;  
QY 6 LLLLLPRTRADEHHTYODKEEVLVWNTVGPYHNRQTYKYFSLPFCVGSKKSISHVHE 65  
Db 23 LLALALASASESDHKYKTEEPVKLVNKGVPYNNPQETNYSLPFCQSEN-THKGG 81  
QY 66 TIGEALQGVLEFSGLDIKFDKDDYMPATYCEIDLKDKRDAFYVAIKNHYWQYIMDDLP 125  
Db 82 GLGEVLGGNELIDSQLEIKFLKNVEKSGICTLELDKAKVQOFADAISSYWFEEFIDDL 141  
QY 126 INGVGEADENGED-YYLWTYKKLBIGFNGNRIVDVNLTSKGVKLVNPTNTKIQMSYSYKWK 184



```
Db 142 LMGFVGETDKNSKNKHYLYTHKNILVKYNDNRHIIHVNLTQESPTLLEDGKKLEMTYSVK 201
Qy 185 KKSVDKE-EDRFDKYLDPSPFQHRHWFISFNSEPMVIFLVGLVSMILMRTLRKDYARS 243
Db 202 VATDVSFAKXFEVYLDYPPFEHQHWFISFNSEPMVIFLVGLVSMILMRTLRNDYAKYA 261
Qy 244 KB-BEMDDMDRLDGEYGVKQVHGDFRPSHPLIFSSLGSCQIFAVSLIIVIAMIE 302
Db 262 REDDDLESLESDVNEESGKLVHGDFRPPQSLMFLSALVIGTQLAALILLVILAIVG 321
Qy 303 DLYTERGSMSTALFVVAATSPVNGYFGGSIYARQGRRWKQMFICAFILIPAMVCGTAF 362
Db 322 MLYIGRGAITTFIVCYALTSPISGYVSGGYSRNGGKNWKAMLTASLFPFLCFSIGF 381
Qy 363 PINFIATYYHASRAIPFGTVMVAVCCICFFVILPLNLVGTILGRNLSQGNPPPCRVNAVPR 422
Db 382 ALNTIAIFYSRLAIPFGTVMVFWLWAFISFPLVLLGTVVGRNWSGAPNPCRKTIPR 441
Qy 423 PIPEKKWFMEPAVIVCLGGILPGCSIEMFYFTSWAYKIYVYVGFMMVLVILCIYT 482
Db 442 PIPEKKWYLPFSVLSLGGLLPFGSIFEMFYFTSWAYKIYVYVGFMMVLVILCIYT 501
Qy 483 VCVTIVCTYLLNAEDYRWQWTSPLSAASTAIYVYMSFYIYFFKTKYGLFOTSFYFGY 542
Db 502 ICVTIIVGTYLLNAENYHMQWTSPLSAASTAIYVYLSIYIYHVKTGMSGFFOTSFYFGY 561
Qy 543 MAVESTALGIMCGAIGYMGTSAPVRKIYTNVKID 576
Db 562 TLMFCLGLGILCGAIGYLGSTLFVRRIRYRIKCD 595
```

## RESULT 8

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US-10-437-963-116913
; Sequence 116913, Application US/10437963
; Publication No. US2004012343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Brad
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 116913
; LENGTH: 596
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_2036C.1.pap
US-10-437-963-116913
```

```
Query Match 55.6%; Score 1716; DB 16; Length 596;
Best Local Similarity 56.5%; Pred. No. 7.9e-151;
Matches 325; Conservative 91; Mismatches 153; Indels 6; Gaps 5;
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```
Qy 5 LLLLLPR-TRADEHEHTYQDKEEVLWMNTVGPYHNRQETKYFSLPFCVGSKKSISHY 63
Db 25 LLALATRPASASDSDHKYKEEVPKLVWNVKVPYNNPQETIYHSLPFCQPSNP-AHK 83
Qy 64 HETLGEALQVLEFSGLDIKFKDDVMPATYCEIDLKEDKDAFVAIKHYYQWYIDD 123
Db 84 WGGGLYGLGNELSDSDIKFKLENEERGSICTLELDSKKVQOQSDAIDNSYWFEFMD 143
Qy 124 LPIWIGVGEADENGED-YILWTYKLEIGFNGNRIVDVNLTSGKVKLVENTKIQMSYSV 182
```

```
Db 144 L--WGFVGETDKNSKNKRYLYTHKSIILVKYNDNRHIIHVNLTQESPKLLEAGKKLDMTYSV 201
Qy 183 KWKSDVDFEDFDKYLDPSPFQHRHWFISFNSEPMVIFLVGLVSMILMRTLRKDYARY 242
Db 202 KWLQTDVTFARFEVYLDYPPFEHQHWFISFNSEPMVIFLVGLVSMILMRTLRNDYAKY 261
Qy 243 SKE-BEMDDMDRLDGEYGVKQVHGDFRPSHPLIFSSLGSCQIFAVSLIIVIAMIE 301
Db 262 ABEDDDLESLESDVNEESGKLVHGDFRPPRSLAFLSAVVGIGTQLAALILLVILAIV 321
Qy 302 EDLYTERGSMSTALFVVAATSPVNGYFGGSIYARQGRRWKQMFICAFILIPAMVCGTA 361
Db 322 GMLYVGRGSIITFIVCYALTSPISGYVSGGYSRNGGKNWKAMLTASLFPFLCFAIG 381
Qy 362 PINFIATYYHASRAIPFGTVMVAVCCICFFVILPLNLVGTILGRNLSQGNPPPCRVNAV 421
Db 382 FVLNTIAIFYSRLAIPFGTVMVFWLWAFISFPLVLLGTVVGRNWSGAPNPCRKTIP 441
Qy 422 RIPEKKWFMEPAVIVCLGGILPGCSIEMFYFTSWAYKIYVYVGFMMVLVILCIY 481
Db 442 RIPEKKWYLPFSVLSLGGLLPFGSIFEMFYFTSWAYKIYVYVGFMMVLVILCIY 501
Qy 482 TVCVTIIVCTYLLNAEDYRWQWTSPLSAASTAIYVYMSFYIYFFKTKYGLFOTSFYFG 541
Db 502 TICVTIIVGTYLLNAENYHMQWTSPLSAASTAIYVYLSIYIYHVKTGMSGFFOTSFYFG 561
Qy 542 YNAVESTALGIMCGAIGYMGTSAPVRKIYTNVKID 576
Db 562 YTMFCLGLGILCGAIGYLGSTLFVRRIRYRIKCD 596
```

## RESULT 9

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US-10-739-930-9909
; Sequence 9909, Application US/10739930
; Publication No. US20040216190A1
; GENERAL INFORMATION:
; APPLICANT: Kovalic, David K.
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES AND OTHER MOLECULES ASSOCIATED WITH
; TITLE OF INVENTION: PLANTS AND USES THEREOF FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53377)B
; CURRENT APPLICATION NUMBER: US/10/739,930
; CURRENT FILING DATE: 2003-12-18
; NUMBER OF SEQ ID NOS: 11088
; SEQ ID NO 9909
; LENGTH: 595
; TYPE: PRT
; ORGANISM: Triticum aestivum
; FEATURE:
; OTHER INFORMATION: Clone ID: TRIAE-23APR03-C2111_1.p
US-10-739-930-9909
```

```
Query Match 55.4%; Score 1712; DB 17; Length 595;
Best Local Similarity 55.0%; Pred. No. 1.9e-150;
Matches 321; Conservative 96; Mismatches 155; Indels 12; Gaps 4;
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```
Qy 4 WLLLLLP-----RTRADEHEHTYQDKEEVLWMNTVGPYHNRQETKYFSLPFCV 54
Db 13 FVLLLSLTAVLAFASPLRASASESDHKYKAGDSVKLVWNVKVPYNNPQETIYHSLPFCQ 72
Qy 55 GSKKSIHVHETLGEALQVLEFSGLDIKFKDDVMPATYCEIDLKEDKDAFVAIKH 114
Db 73 PSENP-GHKWGLGELVGNELIDSQLDIKFLNRNVERGSICTLELDPKTKTQFADAISS 131
Qy 115 WYQWYIDDLPTIIVGGEADENGED-YILWTYKLEIGFNGNRIVDVNLTSGKVKLPVN 173
Db 132 YWFEFFIDDLPLWGFVGETDKNSKNKHYLYTHKNILVKYNDNRHIIHVNLTQESPKL 191
Qy 174 TKIQMSYSVKWKSVDKEDRDKYLDSPFQHRHWFISFNSEPMVIFLVGLVSMILMR 233
Db 192 KNLDMTYSAKWYPTDVSFARFEVYLDYPPFEHQHWFISFNSEPMVIFLVGLVSMILMR 251
Qy 234 TURKDYARYSK-EEEMDDMDRLDGEYGVKQVHGDFRPSHPLIFSSLGSCQIFAVS 292
```

```

Db 252 TLNDYAKYARDLLESLERDVNEESGKVLHGDVFRPRSLTLISALVIGIGTQLAALI 311
QY 293 LVIIVAMIEDLYTERGSMSTAI FVYAATS PVNGYFGGSIYARQGRRWKQMFAGFL 352
Db 312 LVLVLAIVGLMYVGRGAIITTFIVCVALT SFISGYVSGGYSRNGKNWIKAMILTASL 371
QY 353 IPAMVCGTAFFINFAIYHASRAIPFGTMVAVCCI FFFVLPLNLVGTILGRNLGQPN 412
Db 372 FPLHLFAIGFALNTAIFYGLAALPFGTMVAVCCI FFFVLPLNLVGTILGRNLGQPN 431
QY 413 PFCRNAPRPIPKKQMPMEPAVIVCGLLPGFSIFEMFYFIFTSFWAYKIYVYGFMM 472
Db 432 NPCRVKTIPIPKKQMPMEPAVIVCGLLPGFSIFEMFYFIFTSFWAYKIYVYGFMM 491
QY 473 LVLVLCIVTCVITVCTYFLNNAEDYRWQWTSFSAASTAIYVYMFYFFPKTKMYG 532
Db 492 LVFVILLIVTICVITVCTYFLNNAEDYRWQWTSFSAASTAIYVYMFYFFPKTKMYG 551
QY 533 LFQTSFYGVNAVSTALGIMCGAIGYMGTSFAVRKIYTNVKID 576
Db 552 FFQTSFYGVNAVSTALGIMCGAIGYMGTSFAVRKIYTNVKID 595

RESULT 10
US-10-425-114-66140
; Sequence 66140, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 66140
; LENGTH: 576
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: LIB4573-008-E4_FLI.pcp
US-10-425-114-66140

Query Match 53.0%; Score 1636.5; DB 15; Length 576;
Best Local Similarity 53.1%; Pred. No. 2e-143;
Matches 307; Conservative 92; Mismatches 142; Indels 37; Gaps 3;

QY 1 AALMILLLLPRTRADEHEHTYQDKEEVVLWMNTVGPYHNRQETKYFSLPFCVGSKSI 60
Db 34 AAILIAVAHSPLAYASEAHKYKTEEPVKLMVNVK----- 68
QY 61 SHYHETLGEALQGVLEFSGDIDKFDDVMPATYCEIDLKDKRDAFVYAIKNHYWQY 120
Db 69 -----LGGNELIDSDIDIKFNVDKGAICTIELDVQVQFANAIENSFWELF 118
QY 121 IDDLPIWIGVGEADNGE-DYYLWTKYKLEIFGNRIVDNLTSBGKVLVPNTKIQMS 179
Db 119 IDDLPLMGVGTDKNNEKKHYLTHKNIVVKNRNIHVNLTQESPKLLEAGKLDMT 178
QY 180 YSVKWKSDVKFEEDFKYLDPSFQHRHWFSPNSFMVIFLVGLVSMILMTLRKDY 239
Db 179 YSVKWKQTNVAFARFEVLDYPPFEHQIHWFSPNSFMVIFLVGLVSMILMTLRNDY 238
QY 240 ARYSKE-BEMDDMDRLDGEYGWKQVHGDVFRPSPSHPLIFSSLIGSCQIFAVSLIIV 298
Db 239 AKYAREDDDLSELRDVNEESGKVLHGDVFRPRGQVFLSALVIGIGTQLAAILLIVL 298
QY 299 AMIEDLYTERGSMSTAI FVYAATS PVNGYFGGSIYARQGRRWKQMFAGFLIPAMVC 358
Db 299 AMIEDLYTERGSMSTAI FVYAATS PVNGYFGGSIYARQGRRWKQMFAGFLIPAMVC 358

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Db 299 AIVWMLYVGRGAIITTFIVCVALT SFISGYVSGGYSRNGKNWIKAMILTASLFPFLCF 358
QY 359 GTAFFINFAIYHASRAIPFGTMVAVCCI FFFVLPLNLVGTILGRNLGQPNPCCRNV 418
Db 359 SIGLLNTAIFRSLAALPFGTMVAVCCI FFFVLPLNLVGTILGRNLGQPNPCCRNV 418
QY 419 AVPRPIPKKQMPMEPAVIVCGLLPGFSIFEMFYFIFTSFWAYKIYVYGFMMVLVIL 478
Db 419 TIPRPIPKKQMPMEPAVIVCGLLPGFSIFEMFYFIFTSFWAYKIYVYGFMMVLVIL 478
QY 479 CIVTVCVITVCTYFLNNAEDYRWQWTSFSAASTAIYVYMFYFFPKTKMYGLFOTSF 538
Db 479 IIVTVCVITVCTYFLNNAEDYRWQWTSFSAASTAIYVYMFYFFPKTKMYGLFOTSF 538
QY 539 YFGYNAVSTALGIMCGAIGYMGTSFAVRKIYTNVKID 576
Db 539 YFGYNAVSTALGIMCGAIGYMGTSFAVRKIYTNVKID 576

RESULT 11
US-10-425-115-286624
; Sequence 286624, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 286624
; LENGTH: 552
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_24498C.1.pcp
US-10-425-115-286624

Query Match 52.9%; Score 1635.5; DB 17; Length 552;
Best Local Similarity 52.9%; Pred. No. 2.3e-143;
Matches 306; Conservative 93; Mismatches 144; Indels 37; Gaps 3;

QY 1 AALMILLLLPRTRADEHEHTYQDKEEVVLWMNTVGPYHNRQETKYFSLPFCVGSKSI 60
Db 10 AAILIAVAHSPLAYASEAHKYKTEEPVKLMVNVK----- 44
QY 61 SHYHETLGEALQGVLEFSGDIDKFDDVMPATYCEIDLKDKRDAFVYAIKNHYWQY 120
Db 45 -----LGGNELIDSDIDIKFNVDKGAICTIELDVQVQFANAIENSFWELF 94
QY 121 IDDLPIWIGVGEADNGE-DYYLWTKYKLEIFGNRIVDNLTSBGKVLVPNTKIQMS 179
Db 95 IDDLPLMGVGTDKNNEKKHYLTHKNIVVKNRNIHVNLTQESPKLLEAGKLDMT 154
QY 180 YSVKWKSDVKFEEDFKYLDPSFQHRHWFSPNSFMVIFLVGLVSMILMTLRKDY 239
Db 155 YSVKWKQTNVAFARFEVLDYPPFEHQIHWFSPNSFMVIFLVGLVSMILMTLRNDY 214
QY 240 ARYSKE-BEMDDMDRLDGEYGWKQVHGDVFRPSPSHPLIFSSLIGSCQIFAVSLIIV 298
Db 215 AKYAREDDDLSELRDVNEESGKVLHGDVFRPRGQVFLSALVIGIGTQLAAILLIVL 274
QY 299 AMIEDLYTERGSMSTAI FVYAATS PVNGYFGGSIYARQGRRWKQMFAGFLIPAMVC 358
Db 275 AIVWMLYVGRGAIITTFIVCVALT SFISGYVSGGYSRNGKNWIKAMILTASLFPFLCF 334
QY 359 GTAFFINFAIYHASRAIPFGTMVAVCCI FFFVLPLNLVGTILGRNLGQPNPCCRNV 418

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Db 335 SIGLLNTIAFYSLAAIPFGTMVMPILWAFISFPLVLLGTUVGRNWSGAPNNPCRVK 394  
Qy 419 AVPRPEKKWFMEPAVIVCLGGILPGSIFIEYFIETSPWAYKIYVYGFMLVLVIL 478  
Db 395 TIPRPIPEKKWLTSPVLSLGGLLPGSIFIEYFIETSPWAYKIYVYGFMLLVFVIL 454  
Qy 479 CIVTVCVTIVCTYFLLNAEDYRWQTSPLSAASTAIYVYMFYFYYFETKMYGLFQTSF 538  
Db 455 IIVTICVTIVCTYFLLNAENYHWQTSFSAASTALYVLYSIYYHVTKMGSFFQTSF 514  
Qy 539 YFGWAFVSTALGIMCGAIGWGTSAFVRKIYTNVKID 576  
Db 515 YFGYTLMPFCLGILCGAVGLGTLFVRRIRYRNKICD 552  
RESULT 12  
US-10-425-115-206340  
; Sequence 206340, Application US/10425115  
; Publication No. US20040214272A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa, Thomas J.  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with  
; TITLE OF INVENTION: Plants  
; FILE REFERENCE: 38-21(53222)B  
; CURRENT APPLICATION NUMBER: US/10/425,115  
; CURRENT FILING DATE: 2003-04-28  
; NUMBER OF SEQ ID NOS: 369326  
; SEQ ID NO 206340  
; LENGTH: 500  
; TYPE: PRT  
; ORGANISM: Zea mays  
; FEATURE:  
; NAME/KEY: unsure  
; LOCATION: (1)...(500)  
; OTHER INFORMATION: unsure at all Xaa locations  
; FEATURE:  
; OTHER INFORMATION: Clone ID: MRT4577\_119765C.1.pap  
US-10-425-115-206340  
Query Match 46.3%; Score 1430.5; DB 17; Length 500;  
Best Local Similarity 54.9%; Pred. No. 2.6e-124; Indels 7; Gaps 4;  
Matches 269; Conservative 88; Mismatches 126;  
6 LLLPLRTRADEHETTYQDKEEVVLWNTVGPYHNRQETKYKSLPFCVGSXKSISYH 65  
14 LLLVPLTAASDSHKYQAAEPVTLWNVKVPYNNPQETNYYSLPFCHASE---NHVK 70  
66 --TLGEALQGVLEFESGLDIFKDDVMPATYCEITDLDEKEDAFVYAIKHYYQWIDD 123  
71 WGGVLGVGGNELDSQIDIKFGKNVDKATICSLLDLVLKAKQLSDAIENSYWFEFIDD 130  
124 LPIWGIAGEADENGED--YIWTYKKEITGFNGNRIVDVNLTSEKVKLVNTKIQMSYV 182  
131 LPLNGFVGEADRNNDKXVFLFTHKNIVIRYNGNIOIHVNLTOESPCLDYNKALDMYTV 190  
183 KKKKSDVKFEDRPKYLDPSFQHRHWFSTFNSFMVYFVLGLVSMILMRTLRKDYARY 242  
191 KWEPTNITFAHRFDVLYDYPFPEHQIHWFSIFNSFMVYFELTGLVSMILMRTLRNDYAKY 250  
243 SK-BEEMDDMDRDLGDEGVKQVHGDFRPSHPLIFSSLLIGSCQIPAVSLIIVAMI 301  
251 ARDDDDIETLERDYNESGKLVHGDFRPPCNVLLSALVIGIQTAAILLVILLAI 310  
302 EDLYTERGSMSTAIIFYAATSPVNGYFGGSLYARQGRWIKOMFTGAFILFAMVCGTA 361  
311 GMLYIGRGAI VTTTIFVCYALTSTFSGYVSGALYSHRGKWKIKAMAMTASLFFPMCFGIG 370  
362 PFIFIALIYHASRAIPGTWAVCCICFFVILPLNLVGTILGNLSQGNFRCRVNAP 421  
371 LVNLNTIAIFYGLAAIPFGTMVMPILWAFISFPLVLLGTUVGRNWSGAPNNPCRVK 430

Qy 422 RPIPEKKWFMEPAVIVCLGGILPGSIFIEYFIETSPWAYKIYVYGFMLVLVILCIV 481  
Db 431 RPIPEKKWLTSPVLSLGGLLPGSIFIEYFIETSPWAYKIYVYGFMLLVFLLIIV 490  
Qy 482 TVCVTIIVCTY 491  
Db 491 XICVTIVGTY 500  
RESULT 13  
US-10-437-963-103141  
; Sequence 103141, Application US/10437963  
; Publication No. US20040123343A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa, Thomas J.  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; APPLICANT: Wu, Wei  
; APPLICANT: Boukharov, Andrey A.  
; APPLICANT: Barbazuk, Brad  
; APPLICANT: Li, Ping  
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated with  
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement  
; FILE REFERENCE: 38-21(53221)B  
; CURRENT APPLICATION NUMBER: US/10/437,963  
; CURRENT FILING DATE: 2003-05-14  
; NUMBER OF SEQ ID NOS: 204966  
; SEQ ID NO 103141  
; LENGTH: 424  
; TYPE: PRT  
; ORGANISM: Oryza sativa  
; FEATURE:  
; NAME/KEY: unsure  
; LOCATION: (1)...(424)  
; OTHER INFORMATION: unsure at all Xaa locations  
; FEATURE:  
; OTHER INFORMATION: Clone ID: PAT\_MRT4530\_1005C.1.pap  
US-10-437-963-103141  
Query Match 42.5%; Score 1313; DB 16; Length 424;  
Best Local Similarity 57.7%; Pred. No. 1.9e-113;  
Matches 240; Conservative 69; Mismatches 105; Indels 2; Gaps 2;  
162 LTSEGVKVLVPNTKIQMSYVKKKSDVKFEDRPDKYLDPSFQHRHWFSTFNSFMV 221  
10 ISQSPTHLEAGKLDMTYVKVQTVNAVAFARFVYLDYPPFPEHQIHWFSIFNSFMV 69  
222 FLVGLVSMILMRTLRKDYARYSKE-BEEMDDMDRDLGDEGVKQVHGDFRPSHPLIFSS 280  
70 FUTGLVSMILMRTLRNDYAKYAREDDDDLESLEDSSESGKLVHGDFRPPRSJVFUSA 129  
281 LIGSGCQIPAVSLIIVAMIEDLYTERGSMSTAIIFYAATSPVNGYFGGSLYARQGR 340  
130 FVGIGYQLAALLVILVLAIVGLVYVGRGAIITTFIVCYALTSTFISGVSGGLYSRNGK 189  
341 RMKQMFICAFILPAMVCGTAFINFIYHASRAIPGTWAVCCICFFVILPLNLV 400  
190 NMKSMILTASLFFPLCFISIGLVNLNTIAIFYASLAAIPFGTMVIFVLMWAFISFPLVILG 249  
401 TILGNLSQGNFPCRVNAPRPIPEKKWFMEPAVIVCLGGILPGSIFIEYFIETSPFW 460  
250 TVVGRNWSGAPNNPCRVKTIPEKWKYLTSPVLSLGGLLPGSIFIEYFIETSPFW 309  
461 AKIYVYGFMLLVILCIVTVCVTIVCTYFLLNAEDYRWQTSPLSAASTAIYVYMWYS 520  
310 NYKVVYVYGFMLLVFLLIIVTICVTIVCTYFLLNAENYHWQTSFSAASTALYVLYLS 369  
521 FYYYFETKMYGLFQTSFVFGWAFVSTALGIMCGAIGWGTSAFVRKIYTNVKID 576  
370 IYYHVTKMGSFFQTSFYSFYGTLMPFCLGILCGTIVETXST-LFVRRIYRNKICD 424

